



CdM ISC '16 Programme

Oceans: Future sustainability challenges

Keynote addresses | Session Code: KA

Sustainable Use of Marine Resources | Session Code: SUMR

Technological Progress, Engineering and Business Management | Session Code: TPEBM

Integrated Management of the Sea | Session Code: IMS

Ocean Observation and Global Change | Session Code: OBGH

Wednesday, November 16th

19:30 Welcome reception at the Theatre of Vila Real offered by the Municipality
(22:30 Free entry to Fado evening at Café Concerto)

Thursday, November 17th

08:00 Registration

Chairpersons: Edna Cabecinha, Henrique Queiroga

09:00 Opening session & Aida Rios Memorial

09:30 The ocean and human health: an emerging integrated meta-discipline
Niall McDonough | KA 1

10:00 One for all... the basis of interdisciplinary science
David M. Paterson | KA 2

10:30 Coffee break

Chairperson: Marco Lemos

11:00 Modelling of *Mytilus galloprovincialis* larval dispersal and connectivity in NW Iberia | Jesus Dubert | SUMR O 1

- 11:15** **A coupled biogeochemical-Dynamic Energy Budget model as a tool for managing fish earth ponds**
Dalila Serpa | SUMR O 2
- 11:30** **Extraction, purification and in vitro analysis of active compounds of brown seaweed *Sargassum muticum***
Patricia Pérez Larrán | SUMR O 3
- 11:45** **Adding value to marine biological resources and by-products: from seafood up to biomedical, pharma and cosmetics**
Tiago H. Silva | SUMR O 4
- 12:00** **Enhancing marine energy competitiveness: co-located offshore wind and wave energy farms**
Sharay Astariz | TPEBM O 1
- 12:15** **Wave farm planning based on high resolution performance computations and integrated coastal management: a case study in NW Spain**
Rodrigo Carballo | TPEBM O 2
- 12:30** **Lunch**

Chairperson: Tiago H. Silva

- 14:00** **Research on coastal ecosystems after Great East Japan Earthquake (GEJE) on March 11, 2011**
Kazuhiro Kogure | KA 3
- 14:30** **Sustainability of maritime transport: legal aspects**
Francisco José Torres Pérez | TPEBM O 3
- 14:45** **Effect of climate change in the mussels prices in Galicia (Spain): consequences for management**
Gonzalo Rodríguez-Rodríguez | TPEBM O 4
- 15:00** **Blue spaces as a resource of human well-being: exploring Portuguese perceptions of the benefits of visiting Marine and Coastal Zones**
Darinka Costa Gonzalez | IMS O 1
- 15:15** **Source or Sink? Mussel larval delivery and spill-over effects around the Berlengas Marine Protected Area (SW Portugal) | Rui Albuquerque | IMS O 2**
- 15:30** **Effect of different environmental conditions on the incorporation of trace elements by larval shells of *Mytilus galloprovincialis* | Laura Garcia Peteiro | IMS O 3**
- 15:45** **Metapopulation persistence from a network approach: It's time to let the fish return home**
Jessica Zamborain Mason | IMS O 4
- 16:00** **Coffee break & Poster sessions**
Sustainable Use of Marine Resources | Integrated Management of the Sea

Chairperson: Rodolfo Barreiro

- 16:45** **Towards an Integrated Coastal Zone Management: a case study**
Mónica Barbosa | IMS O 5
- 17:00** **Gradients in land artificialization rates from coastal to inner regions: do they resemble patterns of economic and social welfare? | Ricardo Bento | IMS O 6**
- 17:15** **The choice experiment approach applied to tidal energy funding**
Angela Vazquez | IMS O 7

20:00 Conference dinner at Quinta do Paço
19:30 Bus departure at Miracorgo Hotel

Friday, November 18th

Chairperson: Carmen Castro

- 09:00** Human Society and the Sea – it’s exhausting!
John Largier | KA 4
- 09:30** Evaluation and characterization of environmental licensing in the port of Rio Grande: criteria for the creation of operational monitoring
Isabela Carvalho | IMS O 8
- 09:45** Measuring good fisheries governance: indicators tools and stakeholders
Ixai Salvo Borda | IMS O 9
- 10:00** Morpho-sedimentary and hydrodynamical behaviour of the Douro River estuary: in-situ sedimentary, water quality and bathymetry characterization
Isabel Iglesias | IMS O 10
- 10:15** The Iberian Upwelling System: what to expect in the future?
Isabel Gomes Teixeira | OBGH O 1
- 10:30** Coffee break

Chairperson: Frederico Brandini

- 11:00** Providing a gateway to marine observations in Europe: the role or EMODnet
Belén Martín Míguez | OBGH O 2
- 11:15** The IEO coastal observatory: understanding variability of coastal circulation and ecosystem response off North and North West Iberia
Manuel Ruiz Villarreal | OBGH O 3
- 11:30** Boreal summer distributions of NO₃, PO₄ and *Trichodesmium* in the equatorial Atlantic Ocean
Ana Fernández Carrera | OBGH O 4
- 11:45** Pigmented nanoplankton and mixotrophic nutrition in coastal upwelling systems: the case of NW Iberian margin
Francisco G. Figueiras | OBGH O 5
- 12:00** The species distribution of microbial plankton: from a disperse to a functionally neutral community
Miguel Blanco Vázquez | OBGH O 6
- 12:15** Role of mixing on microphytoplankton community structure
Marina Villamaña | OBGH O 7
- 12:30** Lunch

Chairperson: Elsa Vázquez

- 14:00** Scientific and policy challenges in ocean sustainability
Ricardo Serrão Santos | KA 5

- 14:30** **Long-term subsurface dissolved oxygen trend in the NW Iberian coastal upwelling system (NE Atlantic)**
Carmen G. Castro | OBGH O 8
- 14:45** **Biological N₂-fixation in the Galician upwelling system: magnitude, relevance and main players**
Víctor Moreira-Coello | OBGH O 9
- 15:00** **Vertical fluxes of phytoplankton carbon in the Ría de Vigo (NW Spain): Influence of mussel farming**
María Froján | OBGH O 10
- 15:15** **Marine fisheries as a provisioning ecosystem service in Portugal: effects of effort and environmental variables between 1989 and 2014**
Juan Bueno-Pardo | OBGH O 11
- 15:30** **Signature of the International Campus do Mar Convention**
- 16:00** **Coffee break & Poster sessions**
Technological Progress, Engineering and Business Management | Ocean Observation and Global Change
- Chairperson: Paco Figueiras**
- 16:30** **Effects of low salinities on the physiological and behavioural responses of four major intertidal bivalves**
Rula Domínguez | OBGH O 12
- 16:45** **Pathology biomarkers as useful tools in biomonitoring studies to assess fish health under pollution impacts: a case study built from Portuguese estuaries**
João Carrola | OBGH O 13
- 17:00** **The microbiome of cetaceans as a health status indicator**
Helena Rodrigues | OBGH O 14
- 17:15** **Mercury pathway in the marine trophic web of the Southern Ocean**
José Seco | OBGH O 15
- 17:30** **Best student poster and oral communication award**
Chairpersons: Edna Cabecinha, Henrique Queiroga, Emilio Fernández
- 17:45** **Closing session**

Poster Sessions Programme

Thursday, November 17th

Chairpersons: Eric Thiebaut, Sandra Mariza Monteiro, João Carrola

16:00 - 16:45

Sustainable Use of Marine Resources | Integrated Management of the Sea

The sustainability of the potential of ocean renewable electricity generation: education the key of future

Carla A. D'Aquino | SUMR P 1

Translocation and restocking as complementary tools in the recovery of sea urchin aggregations

Silvia de la Uz | SUMR P 2

Disentangling the influence of fishing, demography and environment on population dynamics of commercial fish stocks in Iberian Atlantic waters

Marta Quinzán Rodríguez | SUMR P 3

Heteroplasmy in the spiny spider crab *Maja brachydactyla*

Elba Rodríguez-Pena | SUMR P 4

Cryptic diversity among two different peracaridean morphospecies in the Macaronesia region: implication for MPA management

Andrea Desiderato | IMS P 1

Improving snorkeling activities in Islas Atlánticas de Galicia National Park to enhance conservancy of seascapes

Cristina Piñeiro-Corbeira | IMS P 2

An integrated coastal analysis for the installation of a wave farm in a region

Nestor Areán | IMS P 3

Selecting sites for co-located wave and wind farms: a more sustainable use of the marine resource

Sharay Astariz | IMS P 4

Land-cover changes in the coastline of the Iberian Peninsula in relation to social and economic variables: towards an integrated indicator of human pressure on the coastal system

Aida Ovejero | IMS P 5

Adaptation of 'Ocean Health Index' to a regional scale: Ría de Vigo

Rocío Rodríguez Torres | IMS P 6

Assessment of fertility of the mussel *Mytilus galloprovincialis* along the Portuguese coast

Laura Peteiro | IMS P 7

Spatial and seasonal variability in $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ in a moderately impacted *Zostera noltei* seagrass ecosystem: sources of matter and anthropization patterns

Marta Román | IMS P 8

Blue and Humpback whales: unraveling migratory routes through a spatio-temporal analysis

Raul Valente | IMS P 9

Compiling a DNA barcode reference library for macrobenthic invertebrate fauna from the southern European Atlantic coast

Filipe O. Costa | IMS P 10

Assessment of the influence of the sediment transport on port operativity

Miguel Alvarez | IMS P 11

A local approach to coastal morphodynamics, vulnerability and management

Ana Bio | IMS P 12

Education, research and extension in environments coastal and oceanic earth sciences sector / UFPR – Brazil

Donizeti Antônio Giusti | IMS P 13

A hierarchical structure of regulations for offshore wind installation: the case of Spain

Santiago Salvador | IMS P 14

Friday, November 18th

Chairpersons: Jesus Dubert, Filipe Costa, Ana Maria Coimbra

16:00 - 16:45

Technological Progress, Engineering and Business Management | Ocean Observation and Global Change

Tidal stream plants power performance: intra-annual comparison of different configurations

M. Sanchez | TPEBM P 1

Effect of the initial stages of marine biological colonization on the mechanical properties of concrete

André Paiva | TPEBM P 2

Nanoporous green membranes for water purification and desalination

Ana Querejeta-Fernández | TPEBM P 3

Elevated temperature and 17 α -ethinylestradiol exposure affects zebrafish sex ratio: implications on a climate change scenario

Dércia Santos | OBGH P 1

Effects of a heat wave on physiological and behavioural responses of two mytilids

Elsa Vasquez | OBGH P 2

Use of real-time monitoring stations to determine turbidity variability in the mouth of the Ulla River

Jose González | OBGH P 3

Minho plume intrusion into the Rias Baixas by means of salinity profiles from 2006 to 2016

Marisela Des | OBGH P 4

Assessing the effect of UV radiation on the phytoplankton-bacterioplankton coupling in response to nutrient additions

Antero Prieto | OBGH P 5

Determining the coexistence threshold of *Micromonas pusilla* and *Synechococcus* sp under non-equilibrium conditions

Jose Luis Otero-Ferrer | OBGH P 6

Dissolved organic carbon in the North Atlantic Meridional Overturning Circulation

Marcos Fontela | OBGH P 7

Beach morphodynamics and stranded macroalgae contributions: impact on CO₂ fluxes and nutrients release

Begoña Araújo | OBGH P 8

Saturation horizon distribution based on an empirical model during Niño conditions in Baja California coast

Iria Simón Otero | OBGH P 9

Spatial and temporal variability in the response of phytoplankton to nutrient and B-vitamin amendments

Vanessa Joglar | OBGH P 10

Salinity stress on *Cerastoderma edule*: comparing physiological responses of early-settlers and juveniles

Laura Garcia Peteiro | OBGH P 11

Accounting for uncertainty in estimates of larval dispersal and population connectivity

Rui Albuquerque | OBGH P 12

Is physical structure of macroalgae the main factor to promote settlement of benthic macrofauna?

Catarina Alves | OBGH P 13

The role of the marine algae canopy structure on the colonization by benthic macroinvertebrates

Hugo Ferreira | OBGH P 14

Biological colonization processes on smooth and rough concrete substrates in intertidal zone

André Paiva | OBGH P 15

Assessing the impact of mussel seed harvesting on intertidal communities

Cristina Piñeiro-Corbeira | OBGH P 16

Cell proliferation genes expression changes in zebrafish gonad after xenoestrogens exposure

Ana Luzio | OBGH P 17

Endocrine disruptors (EDCs) mixtures effects on sexual development- Zebrafish as a model

Ana Luzio | OBGH P 18

Do fish early life stages internalize microplastics? A preliminary study using zebrafish as a model organism

Dércia Santos | OBGH P 19

Next Generation coastal monitoring systems

L.M. Gonçalves | OBGH P 20

Simulating the variability of circulation and ecosystem response in the Portuguese and Galician coastal region

M. Marta-Almeida | OBGH P 21

Effects of the hydrodynamic regime in the organic matter supply at surface sediment in a coastal upwelling system (Ría de Vigo, NW Iberian Peninsula)

Nicolas Villacieros-Robineau | OBGH P 22