

# **Actes del XVI Simposi Ibèric d'Estudis de Biologia Marina, Alacant, Espanya**

## **Actas del XVI Simposio Ibérico de Estudios de Biología Marina, Alicante, España**

### **Proceedings of the XVIth Iberian Symposium of Studies on Marine Biology, Alicante, Spain**

#### **Comitè organitzador / Comité organizador / Organizing Committee**

**Just T. Bayle Sempere** Univ. de Alicante, Alicante, Spain

**Pablo Sánchez Jerez** Univ. de Alicante, Alicante, Spain

**José Luis Sánchez Lizaso** Univ. de Alicante, Alicante, Spain

**José A. González Pérez** Inst. Canario de Ciencias Marinas, Islas Canarias, Spain

**Alfonso A. Ramos Esplá** Univ. de Alicante, Alicante, Spain

**Francisca Giménez Casalduero** Univ. de Alicante, Alicante, Spain

**Manuel Biscoito** Estação de Biologia Marinha do Funchal, Islas Madeira, Portugal

**Yolanda Fernández Torquemada** Univ. de Alicante, Alicante, Spain

**Carlos Valle Pérez** Univ. de Alicante, Alicante, Spain

**Angel Borja** AZTI-Tecnalia, Bizkaia, Spain

**Mafalda Freitas** Estação de Biologia Marinha do Funchal, Islas Madeira, Portugal

**José Miguel González Correa** Univ. de Alicante, Alicante, Spain

**Juan Eduardo Guillén Nieto** Inst. d'Ecologia Litoral, Alicante, Spain

**Sofia Oliveira Pires** Univ. de Alicante, Alicante, Spain

**Aitor Forcada Almarcha** Univ. de Alicante, Alicante, Spain

### **Comitè científic / Comité científico / Scientific Committee**

**Alberto Brito** Univ. de La Laguna, Islas Canarias, Spain  
**Alberto Martín Zazo** Univ. Simon Bolivar, Venezuela  
**Alexandra Cunha** Univ. do Algarve, Faro, Portugal  
**Angel Borja** AZTI–Tecnalia, Bizkaia, Spain  
**Anna Sabatés** CMIMA–CSIC, Barcelona, Spain  
**Celia Olabarria** Univ. de Vigo, Pontevedra, Spain  
**Elsa Vázquez Otero** Univ. de Vigo, Pontevedra, Spain  
**Eva García** Univ. de Oviedo, Oviedo, Spain  
**Fernando Tuya** Centro Interdisciplinar de Investigação Marinha e Ambiental, Porto, Portugal  
**Joao Jose Castro** Univ. de Évora, Évora, Portugal  
**Jorge Baro** Inst. Español de Oceanografía, Málaga, Spain  
**José A. García Charton** Univ. de Murcia, Murcia Spain  
**José A. González Pérez** Inst. Canario de Ciencias Marinas, Islas Canarias, Spain  
**Juan M. Ruiz** Inst. Español de Oceanografía, Pontevedra, Spain  
**Karim Erzini** Univ. de Algarve, Faro, Portugal  
**Manuel Maldonado** Centro de Estudios Avanzados de Blanes–CSIC, Girona, Spain  
**Manuel Biscoito** Estação de Biologia Marinha do Funchal, Islas Madeira, Portugal  
**Miguel Neves dos Santos** Inst. de Investigação das Pescas e do Mar, Olhao, Portugal  
**Mikel Becerro** Centro de Estudios Avanzados de Blanes–CSIC, Girona, Spain  
**Montserrat Demestre** CMIMA–CSIC, Barcelona, Spain  
**Ricardo Haroun** Univ. de Las Palmas de Gran Canaria, Islas Canarias, Spain  
**Teresa Cruz** Univ. de Évora, Évora, Portugal  
**Xavier Turón** Centre d'Estudis Avançats de Blanes–CSIC, Girona, Spain

### **Assessors dels articles / Asesores de los artículos / Referees of papers**

**Ángel Fernández** Inst. Español de Oceanografía, Murcia, Spain  
**Carmen Barberá Cebrián** Inst. Español de Oceanografía, Palma de Mallorca, Spain  
**Damián Jover** Univ. de Alicante, Alicante, Spain  
**Elsa Vázquez** Univ. de Vigo, Pontevedra, Spain  
**Enrique Ballesteros** Centre d'Estudis Avançats de Blanes–CSIC, Girona, Spain  
**Fernando Tuya** Univ. de las Palmas de Gran Canaria, Islas Canarias, Spain  
**Francisca Giménez Casalduero** Univ. de Alicante, Alicante, Spain  
**Javier Romero** Univ. de Barcelona, Barcelona, Spain  
**Jesús Salinas Calvete** Univ. de Alicante, Alicante, Spain  
**Jesús Troncoso** Univ. de Vigo, Pontevedra, Spain  
**José Antonio García Charton** Univ. de Murcia, Murcia, Spain  
**José Enrique García Raso** Univ. de Málaga, Málaga, Spain  
**José Jacobo Zubcoff** Univ. de Alicante, Alicante, Spain  
**José Luis Sánchez Lizaso** Univ. de Alicante, Alicante, Spain  
**José Templado** Museo Nacional de Ciencias Naturales-CSIC, Madrid, Spain  
**Juan Junoy** Univ. de Alcalá de Henares, Madrid, Spain  
**Juan Manuel Ruiz Fernández** Inst. Español de Oceanografía, Murcia, Spain  
**Just Bayle Sempere** Univ. de Alicante, Alicante, Spain  
**Luis Vicente López Llorca** Univ. de Alicante, Alicante, Spain  
**Mercedes González Wangüemert** Univ. do Algarve, Faro, Portugal  
**Montse Demestre** CMIMA–CSIC, Barcelona, Spain  
**Oscar Ocaña** Museo del Mar de Ceuta, Ceuta, Spain  
**Pablo Arechavala** Univ. de Alicante, Alicante, Spain  
**Pablo Sánchez Jerez** Univ. de Alicante, Alicante, Spain  
**Rodrigo Riera** Centro de Investigaciones Medioambientales del Atlantico, Islas Canarias, Spain  
**Romana Capaccioni** Univ. de Valencia, Valencia, Spain  
**Yolanda Fernández Torquemada** Univ. de Alicante, Alicante, Spain

# Índex / Índice / Contents

## 71

J. L. Sánchez Lizaso, J. Bayle Sempere & P. Sánchez Jerez

**Marine biology, biodiversity and conservation: foreword to the SIEBM 2010 Conference**

## 73–82

J. M. Ruiz, L. Marín–Guirao, J. Bernardeau–Esteller, A. Ramos–Segura, R. García–Muñoz & J. M. Sandoval–Gil

**Spread of the invasive alga *Caulerpa racemosa* var. *cylindracea* (Caulerpales, Chlorophyta) along the Mediterranean Coast of the Murcia region (SE Spain)**

## 83–99

G. A. Rivera–Ingraham, F. Espinosa & J. C. García–Gómez

**Conservation status and updated census of *Patella ferruginea* (Gastropoda, Patellidae) in Ceuta: distribution patterns and new evidence of the effects of environmental parameters on population structure**

## 101–111

L. M. Ferrero–Vicente, Á. Loya–Fernández, C. Marco–Méndez, E. Martínez–García & J. L. Sánchez–Lizaso

**Soft-bottom sipunculans from San Pedro del Pinatar (Western Mediterranean): influence of anthropogenic impacts and sediment characteristics on their distribution**

## 113–122

M. García–Rodríguez, A. Fernández & A. Esteban

**Biomass response to environmental factors in two congeneric *Mullus*, *M. barbatus* and *M. surmuletus*, off Catalano–Mediterranean coast of Spain: a preliminary approach**

## 123–132

M. G. Pennino, J. M. Bellido, D. Conesa & A. López–Quílez

**Trophic indicators to measure the impact of fishing on an exploited ecosystem**

## 133–140

A. Garcia, S. Cecchetti, M. N. Santos, S. Mattiucci, G. Nascetti & R. Cimmaruta

**Population structure of Atlantic swordfish (*Xiphias gladius* L. 1758) (Teleostea, Xiphiidae) using mitochondrial DNA analysis: implications for fisheries management**

## 141–150

E. Cacabelos, J. Moreira, A. Lourido & J. S. Troncoso

**Ecological features of Terebellida fauna (Annelida, Polychaeta) from Ensenada de San Simón (NW Spain)**

## 151–163

E. Rojo–Nieto, P. D. Álvarez–Díaz, E. Morote, M. Burgos–Martín, T. Montoto–Martínez, J. Sáez–Jiménez & F. Toledano

**Strandings of cetaceans and sea turtles in the Alboran Sea and Strait of Gibraltar: a long-term glimpse at the north coast (Spain) and the south coast (Morocco)**

## 165–177

M. Samy, J. L. Sánchez Lizaso & A. Forcada

**Status of marine protected areas in Egypt**

## 179–190

V. Fernández–Gonzalez & P. Sanchez–Jerez

**Effects of sea bass and sea bream farming (Western Mediterranean Sea) on peracarid crustacean assemblages**

## 191–203

C. Ojeda–Martínez, J. T. Bayle–Sempere, P. Sánchez–Jerez, F. Salas, B. Stobart, R. Goñi, J. M. Falcón, M. Graziano, I. Guala, R. Higgins, F. Vandeperre, L. Le Direach, P. Martín–Sosa & S. Vaselli

**Review of the effects of protection in marine protected areas: current knowledge and gaps**

## 205–215

E. Azevedo, M. F. Caeiro, R. Rebelo & M. Barata

**Biodiversity and characterization of marine mycota from Portuguese waters**

## 217–227

F. Giménez–Casalduero, C. Muniain, M. González–Wangüemert & A. Garrote–Moreno

***Elysia timida* (Risso, 1818) three decades of research**



# Marine biology, biodiversity and conservation: foreword to the SIEBM 2010 Conference

J. L. Sánchez Lizaso, J. Bayle Sempere & P. Sánchez Jerez

Sánchez Lizaso, J. L., Bayle Sempere, J. & Sánchez Jerez, P., 2011. Marine biology, biodiversity and conservation: foreword to the SIEBM 2010 Conference. *Animal Biodiversity and Conservation*, 34.1: 71.

The SIEBM (Iberian Symposium of Studies on Marine Biology) has a long tradition. The conference was first convened in 1979 and it has since been held approximately biannually. It was originally focused on marine benthos, but two editions ago it was decided to widen its objectives to include other related subjects. The 15th edition was held at the University of Alicante from 6th to 10th September 2010.

One of the strong points of SIEBM is that it provides the opportunity for interaction between well-known researchers and young marine scientists, mainly from Spain and Portugal. In the 2010 edition, however, it was attended by 268 participants from 15 countries.

SIEBM 2010 focused on the human impact on marine ecosystems and the conservation of marine biodiversity to coincide with the United Nations declaring 2010 the International Year of Biodiversity. From a total number of 330 communications received, the Scientific Committee selected 70 for oral presentations and the rest were presented as posters. Each day a plenary conference covered what we considered as the fastest growing areas in marine biology: landscape ecology. The impact of global warming on marine ecosystems, approaches to fisheries management and the study and conservation of deep ecosystems.

The oral presentations were divided into 15 sessions that included both basic research on biodiversity, phylogeny or marine ecology, and applied research in management, fisheries, conservation and the human impact on marine ecosystems. Abstracts, posters and presentations are available at <http://www.siebm.org>.

The studies included in this volume show the variety of subjects and approaches addressed during the conference. These papers were selected and edited by a group of referees and we wish to thank them for their efforts and conscientious work. A list of their names is included. Of the 28 studies received, 13 were finally accepted for this volume.

We also would like to thank all the people who helped in one way or another to make the 15th SIEBM Conference and the proceedings such a success. We thank the Scientific Committee for revising the abstracts and selecting the oral presentations. Most members of this committee also chaired sessions and undertook this task with commitment and dedication.

The planning, logistics and running of the conference were made possible thanks to the enthusiasm of the organising committee and a group of student helpers. We are profoundly indebted to Carlos Valle and Aitor Forcada for their invaluable contribution to the organisation.

Finally, we thank all the sponsors who contributed to the meeting, and especially the Fundación Biodiversidad and the Natural History Museum of Barcelona for their support in publishing this special issue of *Animal Biodiversity and Conservation*.

---

José Luis Sánchez Lizaso<sup>1</sup>, Just Bayle Sempere<sup>2</sup> & Pablo Sánchez Jerez<sup>3</sup>, Dept. de Ciències del Mar i Biologia Aplicada, Univ. d'Alacant, Ap 99, 03080 Alacant, Espanya (Spain).

<sup>1</sup> JL.Sanchez@ua.es <sup>2</sup> Bayle@ua.es <sup>3</sup> psanchez@ua.es