

David March

Marine Spatial Ecologist / GIS Expert
Mediterranean Institute for Advanced Studies (CSIC-UIB)
Espirales, Balearic Islands, Spain
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RESEARCH SKILLS AND INTERESTS

Spatial Analysis; Computational Ecology; Geographic Information Systems (GIS); Species distribution models; Fish tracking; Fisheries; Integrated Coastal Zone Management (ICZM); Marine Spatial Planning (MSP); Spatial Data Infrastructure (SDI), Bayesian statistics, Machine-learning tools; Social Network Analysis

EDUCATION

- **Diploma of Advanced Studies** (DEA, 2008) University of Balearic Islands, Spain
- **MSc Geographic Information Systems** (2008) University of Girona, Spain
- **BSc Biology** (2005) University of Balearic Islands, Spain

PROFESSIONAL EXPERIENCE

Postgraduate contract

Mediterranean Institute for Advanced Studies (IMEDEA-CSIC) | www.imedea.uib.es

Jan 2013 – Present

- Coordination of a national stakeholder platform for supporting EU Marine Strategy Framework Directive
- Integrated assessment of maritime transport using Automated Identification System data
- GIS and data management in oceanography

Postgraduate contract

Centro de Estudios Avanzados de Blanes (CEAB-CSIC) | www.ceab.csic.es

Sep 2010 – Jan 2013

- Cumulative impact mapping in the Mediterranean Sea
- Coordination of a marine spatial data infrastructure for supporting EU Marine Strategy Framework Directive
- Design and implement a database management system for Automated Identification System data

Postgraduate fellowship

Mediterranean Institute for Advanced Studies (IMEDEA-CSIC) | www.imedea.uib.es

Sep 2006 – Aug 2010

- Coordinate, design and analyse fish movement experiments using acoustic biotelemetry.
- Coordinate, design and develop a seagrass cartography using a novel drop-camera system
- Implement Bayesian Models, Generalized Mixed Effect Models and Boosted regression trees
- Integrated assessment of the spatial dimensions in marine recreational fisheries

Postgraduate contract

Marine Biology Lab, University of Balearic Islands | www.uib.es

Nov 2005 – Jan 2006

- Statistical analysis of chemical pollutants in benthic invertebrate species

Co-Founder

Refineria Web | <http://www.refineriaweb.com>

Nov 2005 – Aug 2006

- Development of database management systems and web mapping applications

RESEARCH STAYS ABROAD

Leibniz-Institute of Freshwater Ecology and Inland Fisheries (Germany)

Apr 2010 – May 2010 | <http://www.igb-berlin.de>

Supervisor: Dr. Robert Arlinghaus

- GIS and spatial analysis for implementing an acoustic telemetry system

Hawaii Institute of Marine Biology (USA)

Oct 2008 – Dec 2008 | www.hawaii.edu/himb/

Supervisor: Dr. Kim Holland

- Fish movement analysis

University of Aberdeen (Scotland)

Oct 2007 – Dec 2007 | www.abdn.ac.uk/geosciences/

Supervisor: Dr. David R. Green

- GIS analysis of fishing effort

AWARDS AND FELLOWSHIPS

- PERSEUS Summer School Scholarship (2013) PERSEUS project
- Don L. Brumbaugh Equipment Scholarship (2010) SONOTRONICS
- Best poster award (2007) COASTGIS Conference
- FPI doctoral fellowship (2006) Spanish Ministry of Science and Education
- SENECA fellowship at University of La Laguna (2004) Spanish Ministry of Science and Education

RESEARCH PROJECTS

*research expenses covered only, salary from affiliate institution

*** Growth and innovation in ocean economy – Gaps and priorities in sea basin observation and data (MEDSEA)**

2013 – 2016 | <http://www.emodnet-mediterranean.eu/>

- Principal investigator: Dr. Nadia Pinardi (coord), INGV
- Funding program: European Commission (DG Mare)
- Total cost: 1 095 000 €

Assessing and predicting the combined effects of natural and human-made pressures in the Mediterranean and the Black Sea in view of better governance (PERSEUS)

2012 – 2015 | <http://www.perseus-net.eu/>

- Principal investigator: Dr. Evangelos Papathanassiou (coord), HCMR
- Funding program: European Commission (FP7)
- Total cost: 16 994 500 €

*** Estado de conservación del bivalvo amenazado Pinna nobilis en el Parque Nacional del Cabrera**

2011 – 2013 | <http://www.ba.ieo.es/pinna>

- Principal investigator: Dr. Salud Deudero, IEO
- Funding program: Spanish Government (AMB)
- Total cost: 83 950 €

Knowledge-based Sustainable Management of Europe's Seas (KNOWSEAS)

2009 – 2013 | www.knowseas.com/

- Principal investigator: Dr. Rafael Sardà, CEAB-CSIC
- Funding program: European Commission (FP7)
- Total cost: 7 403 128 €

*** Biología, ecología y uso del hábitat de las especies objetivo de la flota artesanal en la Ría de Vigo: mecanismos de gestión ecosistémica (ARTEVIGO)**

2009 – 2012 | <http://pesquerias.quadralia.net/arte-vigo/>

- Principal investigator: Dr. Fran Saborido Rey, IIM-CSIC
- Funding program: Spanish Government (IDIT)
- Total cost: 99 981 €

*** Las comunidades litorales: bases para la gestión sostenible de un recurso compartido por la pesca recreativa y artesanal (CONFLICT)**

2009 – 2011

- Principal investigator: Dr. Beatriz Morales-Nin, IMEDEA
- Funding program: Spanish Government (IDIT)
- Total cost: 408 980 €

Emergent indirect effects in predator/prey systems: The case of population dynamics of littoral fishes exploited by recreational fishing (ROQUER)

2005 – 2008 | <http://roquer.org/>

- Principal investigator: Dr. Miquel Palmer, IMEDEA
- Funding program: Spanish Government (PRID)
- Total cost: 234 430 €

*** Gestión Integrada de la Zona Costera en las Islas Baleares (UGIZC)**

2005 – 2006 | <http://www.costabalearsostenible.es/>

- Principal investigator: Dr. Joaquín Tintoré, IMEDEA
- Funding program: Government of Balearic Islands (PRDT)
- Total cost: 1 500 000 €

*** Efecto de la pesca recreativa sobre las comunidades ícticas litorales (DONZELLA)**

2005 – 2006

- Principal investigator: Dr. Miquel Palmer, IMEDEA
- Funding program: Government of Balearic Islands (PIAP)
- Total cost: 30 000 €

Développement d'un réseau interrégional de surveillance de la qualité des eaux côtières par des bio-intégrateurs pour la protection durable de la Méditerranée Occidentale (MYTILOS)

2004-2006 | <http://mytilos.tvt.fr/>

- Principal investigator: Dr. Bruno Andral, IFREMER
- Funding program: European Regional Development Fund (INTERREG)
- Total cost: 1 516 246 €

PUBLICATIONS

Academic journals (refereed)

Baktoft H, Zajicek P, Klefoth T, Svendsen JC, Jacobsen L, Pedersen MW, **March D**, Arlinghaus R. (submitted). Assessing the accuracy, precision and efficiency of two automated acoustic telemetry systems covering two different freshwater lakes. Methods in Ecology and Evolution

Sardá, R, Serrano L, Labrune C, Gil J, **March D**, Amouroux JM, Taboada S, Grémare A. (submitted) Shallow water polychaete assemblages in the Northwestern Mediterranean Sea and its possible use in the evaluation of Good Environmental Status. Memoirs of Museum Victoria Journal.

Gilbert A, Alexander K, Sarda R, Brazinskaite R, Fischer C, Gee K, Los H, Jessopp M, Kershaw P, O'Mahony C, **March D**, Pihlajamäki M, Rees S, Varjopuro R. (submitted) Marine Spatial Planning and Good Environmental Status: a perspective on spatial and temporal dimensions. Ecology and Society.

Cinnirella S, Sardà R, Suárez-de Vivero J.L., Brennan R, Angelidis M, Luisetti T, Barausse A, **March D**, Murciano C, Newton A, Icely J., Raux P., Rees S., Palmieri M.G., Albaiges J., Pirrone N. & K. Turner. (submitted) Transformations necessary for achieving effective Good Environmental Status in the Mediterranean Sea. Ecology and Society.

- Vázquez-Luis M, **March D**, Alvarez E, Álvarez-Berastegui D, Deudero S. (accepted) Modelling spatial distribution of the endangered bivalve *Pinna nobilis* in a Marine Protected Area. *Mediterranean Marine Science*.
- March D**, Alós J, Palmer M (2014) Geospatial assessment of fishing quality considering environmental and angler-related factors. *Fisheries Research*, 154, 63-72.
- Cabanellas-Reboredo M, Alós J, **March D**, Palmer M, Jordà G, Palmer M. (2014). Where and when will they go fishing? Understanding fishing site and time choice in a recreational squid fishery. *ICES Journal of Marine Science*.
- March D**, Lora S, Beltrán JP, Sebastian K, Gomara S, Tintoré J. (2013). Data management and applications at SOCIB. *Bulletino di Geofisica teorica ed applicata*, vol 54 (supp), 125-126.
- March D**, Alós J, Cabanellas-Reboredo M, Infantes E, Jordi A, Palmer M. (2013) A Bayesian spatial approach for predicting seagrass occurrence. *Estuarine Coastal and Shelf Science*, vol. 131, p. 206-212.
- Villegas-Ríos D, Alós J, **March D**, Palmer M, Mucientes G, Saborido-Rey F. (2013) Home range and diel behaviour of the ballan wrasse, *Labrus bergylta*, determined by acoustic telemetry. *Journal of Sea Research*, vol. 80, p. 61-71.
- Tintoré J, Vizoso G, Casas B, Heslop E, Pascual A, Orfila A, Ruiz S, Renault L, Juzà M, Diedrich A, Balaguer P, Gómez-Pujol L, Alvarez-Ellacuría A, Garau T, Gomara S, Sebastian K, Lora S, Beltrán JP, **March D**, Escudier R, Martínez-Ledesma M, Torner M, Cusí S, Roque D, Lizarán I, Lana A, Conti D, Sayol J, Alemany F, Álvarez-Berastegui D, Reglero P, Massuti E, Vélez-Belchí P, Ruiz J, Oguz T, Gómez M, Álvarez E, Ansorena L, Manriquez M. (2013). SOCIB: The Balearic Islands Coastal Ocean Observing and Forecasting System Responding to Science, Technology and Society Needs. *Marine Technology Society Journal*, vol. 47(1), p.101-117.
- March D**, Alós J, Cabanellas M, Infantes E, Palmer M. (2013) Probabilistic mapping of *Posidonia oceanica* cover: a Bayesian geostatistical analysis of seabed images. *Aquatic Botany*, vol. 106, p.14-19.
- Cinnirella S, **March D**, O'Higgins T, Murciano C, Sardà R, Albaiges J, Pirrone N. (2012). A multidisciplinary Spatial Data Infrastructure for the Mediterranean to support implementation of the Marine Strategy Framework Directive. *International Journal of Spatial Data Infrastructures Research*, vol. 7, p. 300-322
- Palmer M, Pons G.X., Outerelo R, Vives E, Bellés X, Garcia Ll, Linde M, Gómez-Pujol Ll, **March D**. (2012). Mapping species richness of endemic macroinvertebrates by overlapping distribution maps. *Boll. Soc. Hist. Nat. Balears*, 55, p. 153-176.
- Cabanellas-Reboredo M, Alós J, Palmer M, **March D** and O'Dor R. (2012). Movement patterns of the European squid *Loligo vulgaris* during the inshore spawning season. *Marine Ecology Progress Series*, vol. 466, p. 133-144.
- Alós J, Cabanellas-Reboredo M, **March D**. (2012). Spatial and temporal patterns in the movement of adult two-banded sea bream *Diplodus vulgaris* (Saint-Hilaire, 1817). *Fisheries Research*. vol. 115, p. 82-88.
- March D**, Alós P, Grau A, Palmer M. (2011). Short-term residence and movement patterns of the annular seabream *Diplodus annularis* in a temperate marine reserve. *Estuarine Coastal and Shelf Science*, vol. 92, p. 581-587.
- Palmer M, Balle S, **March D**, Alós J, Linde M. (2011). Estimating the size of circular home range from fish Mark-Release-(single)-Recapture data: the case of a small labrid targeted by recreational fishing. *Marine Ecology Progress Series*, vol. 430, p. 87-97.
- Alós J, **March D**, Palmer M, Grau A, Morales-Nin B. (2011). Spatial and temporal patterns in *Serranus cabrilla* habitat use in the NW Mediterranean revealed by acoustic telemetry. *Marine Ecology Progress Series*, vol. 427, p. 173-186.
- March D**, Palmer M, Alós J, Grau A, Cardona F. (2010). Short-time residence, home range size and diel patterns of painted comber *Serranus scriba* in a temperate marine reserve. *Marine Ecology Progress Series*, vol. 400, p. 195-206.
- Alós J, Arlinghaus R, Palmer M, **March D**, Álvarez I. (2009). The influence of type of natural bait on fish catches and hooking location in a mixed-species marine recreational fishery, with implications for management. *Fisheries Research*, vol. 97(3), p. 270-277.
- Cabanellas-Reboredo M, Deudero S, Alós J, Valencia JM, **March D**, Hendriks I, Alvarez E. (2009). Recruitment of *Pinna nobilis* (Mollusca: Bivalvia) on artificial structures. *Marine Biodiversity Records*, vol. 2, p. 126.
- March D**. (2008) Los SIG en la monitorización y modelado espacial de la pesca recreativa. *IG+*, vol. 10, p. 4-6. ISSN: 1885-0715.
- Deudero S, Box A, **March D**, Valencia JM, Grau AM, Tintoré J, Benedicto J. (2007). Temporal trends of metals in benthic invertebrate species from the Balearic Islands, Western Mediterranean. *Marine Pollution Bulletin*, vol. 54, p. 1545-1558.
- Deudero S, Box A, **March D**, Valencia JM, Grau AM, Tintoré J, Calvo M, Caixach J. (2007). Organic compounds temporal trends at some invertebrate species from the Balearics, Western Mediterranean. *Chemosphere*, vol. 68(9), p. 1650-9.

Book chapters

- Tintoré, J.; Casas, B.; Heslop, E.; Vizoso, G.; Pascual, A.; Orfila, A.; Ruiz, S.; Renault, L.; Juzà, M.; Balaguer, P.; Gómez-Pujol, L.; Alvarez Ellacuria, A.; Gómara, S.; Sebastian, K.; Lora, S.; Beltrán, J.P.; **March, D.**; Escudier, R.; Martínez Ledesma, M.; Torner, M.; Cusí, S.; Roque, D.; Lizarán, I.; Castilla, C.; Cañellas, T.; Lana, A.; Conti, D.; Sayol, J.M.; Mason, E.; Barceló Llull, B.; Alemany, F.; Álvarez, Berastegui, D.; Reglero, P.; Massuti, E.; Vélez Belchí, P.; Ruiz, J.; Oguz, T.; Gómez, M.; Álvarez, E.; Ansorena, L.; Manriquez, M. (2013). The Impact of New Multi-platform Observing Systems in Science,

Technology Development and Response to Society Needs; from Small to Large Scales... Computer Aided Systems Theory - EUROCAST 2013. Ed: Moreno-Díaz, Roberto, Pichler, Franz, Quesada-Arencibia, Alexis. Springer. ISBN 978-3-642-53855-1.

Balaguer P, Diedrich A, Vizoso G, **March D**, Vázquez J, Tintoré J. (2012). Caracterización Espacial de la Badia de Palma (Mallorca, Illes Balears) de acuerdo con una Gestión Integrada de Zonas Costeras y Marinas (GIZCM). In: Barragán, J.M.; Verón, E.; García Sanabria, J.; García Onetti, J. & Chica Ruiz, A. (Eds.) Libro de resúmenes del 1er Congreso Iberoamericano de Gestión Integrada de Áreas Litorales: 471-480. ISBN 13: 978V84V695V1823V6.

Balaguer P, Diedrich A, Vizoso G, **March D**, Tintoré J. (2012). Relación entre la Sensibilidad Ambiental (SA) y la Gestión Integrada de Zonas Costeras y Marinas (GIZCM). Ejemplo de la Badia de Palma. In: Chica-Ruiz, A.; García-Onetti, J; García-Sanabria, J. & Pérez-Cayeiro, M.L. (Eds.) Libro de resúmenes del 1er Congreso Iberoamericano de Gestión Integrada de Áreas Litorales: 378 - 379.

Professional reviews

Animal Behaviour, Marine Ecology Progress Series, Aquatic Ecology, Fisheries Research, Journal of Coastal Conservation, Environmental Biology of Fishes.

CONFERENCES

International

March D, Gómara S, Tintoré J. (2014) Human impacts of the motorways of the sea. EGU General Assembly. Vienna, Austria.

Tintoé J, **March D**, Lora S, Sebastián K, Frontera B, Gómara S, Beltrán JP. (2014). Data management in Oceanography at SOCIB. EGU General Assembly. Vienna, Austria.

March D, Murciano C, Albaigés J, Sardá R, Tintoré J. (2013). Spatial modelling of multiple pressures to support the implementation of the Marine Strategy Framework Directive and Marine Spatial Planning. CIESM. Marseille, France.

Vázquez-Luis M, **March D**, Alvarez D, Alvarez E, Deudero S. (2013). Modelling spatial distribution of the endangered bivalve *Pinna nobilis* in a Marine Protected Area. CIESM. Marseille, France.

March D, Lora S, Beltrán JP, Sebastian K, Gomara S, Tintoré J. (2013). Data management and applications at SOCIB. IMDIS. Lucca, Italy.

March D, Murciano C, Albaigès J, Sardá R. (2012). Cumulative pressures mapping as a tool for the assessment of the MSFD: the case study of the Gulf of Lions. KnowSeas Fourth Scientific Workshop. Bruges, Belgium. Poster.

Sardá R, Icely J, Le-Tissier M, White H, Icely D, Newton A, **March D**, Jansen R, Steuben M, O'Higgins. (2012) The Web Platform Tool (www.msfd.eu). KnowSeas Fourth Scientific Workshop. Bruges, Belgium. Poster.

March D, Sebastian K, Lora S, Beltran JP, Gomara S, Balaguer P, Gómez L, Álvarez A, Canellas T, Vizoso G, Tintoré J. (2012). La IDE costera y oceánica de la ICTS SOCIB / The coastal and oceanic SDI from ICTS SOCIB. III Jornadas Ibéricas de las Infraestructuras de Datos Espaciales. Madrid, Spain. Poster.

Cinnirella S, **March D**, O'Higgins T, Murciano C, Sardà R, Albaigés J, Pirrone N. (2012). A Spatial Data Infrastructure for the Mediterranean to support implementation of the Marine Strategy Framework Directive. EuroGEOSS Conference. Madrid, Spain. Oral communication.

March D, Cinnirella S, D'Amore F, Murciano C, Sardà R, Tintoré J, Pirrone N. (2011). SDI for the Mediterranean. KnowSeas Third Scientific Workshop. Helsinki, Finland. Poster.

March D, Palmer M. (2011). Spatial monitoring of recreational fisheries: a geostatistical approach. 6th World Recreational Fishing Conference. Berlin, Germany. Oral communication.

Sarda R, **March D**, Diedrich A, Vizoso G, Tintoré J, O'Higgin T, McQuatters-Gallop A. (2011). EBMS: GIS-Seas tool. KnowSeas Second Scientific Workshop. Istanbul, Turkey. Poster.

Cabanellas-Reboreda M, Alós J, Valls M, **March D**, Palmer M, Morales-Nin B, Guerra A. (2010). Fishery assessment of the European squid *Loligo vulgaris* in NW Mediterranean: one of the species in CONFLICT project. European Platform for Biodiversity Research Strategy (EPBRS) Conference.

March D, Aguzzi J (2009). Diel behavioural rhythms of the painted comber (*Serranus scriba*) at Palma Bay Marine Reserve (western Mediterranean). ICES 2009. Berlin, Germany. Poster.

March D, Palmer M. (2008). Geospatial applications to assess recreational fisheries at Palma Bay. Fourth International Symposium in GIS/Spatial Analyses in Fishery and Aquatic Sciences. Rio de Janeiro, Brasil. Oral communication.

- March D**, Alós J, Cardona F, Palmer M, Grau A, Pastor E, Linde M, Morales-Nin B, Grau AM. (2007). Evaluation of a passive automated acoustic tracking system within a temperate marine protected area. 2nd International Symposium on Tagging and Tracking Marine Fish with Electronic Devices. San Sebastián, Spain. Poster.
- Cardona F, Martínez M, **March D**, Alós J, Roig D, Alvarez A, Palmer M, Martino S, Donaire G, Grau AM (2007). Evaluation of an automated fish tracking system. 2nd International Symposium on Tagging and Tracking Marine Fish with Electronic Devices. San Sebastián, Spain. Poster.
- March D**, Ruiz M, Palmer M. (2007). A GIS application for monitoring the spatial distribution of recreational fisheries at Palma Bay, Balearic Islands. COASTGIS 2007. Santander, Spain. Best poster award.
- Morales-Nin B, Tugores MP, Moranta J, **March D**, Grau AM. (2007) Assessment on recreational fisheries effort allocation in a Mediterranean Island. International Symposium on Integrated Coastal Zone Management, Arendal, Norway.

National

- Frontera B, Balaguer P, **March D**, Beltran JP. (2014). Procesos web geoespaciales: dificultades y alternativas en el caso del visor SACOSTA. VII Jornadas de SIG Libre. Girona, Spain.
- Cabanellas-Reboredo, M., Alós, J., **March, D.**, Palmer, M., Jordà, G., Calvo-Manazza, M., Palmer, M. and Morales-Nin, B. (2013) Spatio-temporal pattern of the recreational squid jigging fishery. VI Jornades de Medi Ambient de les Illes Balears, Palma de Mallorca , Spain.
- Grau, A., Gil, M.M., Palmer, M., Alós, J. and **March, D** (2013). Restocking meagre (*Argyrosomus regius*): Dispersion and movement pattern of juveniles released at the Balearic coastal ecosystem. VI Jornades de Medi Ambient de les Illes Balears, Palma de Mallorca , Spain
- Royo L, **March D**, Traveset A. (2008). Reestablint l'equilibri de les platges, per un ús públic i conservació sostenible. V Jornades de Medi Ambient de les Illes Balears, Palma de Mallorca, Spain.
- Palmer M, Grau A.M, Alós J, Martino S, **March D**, Grau A, Cardona F, Cerdà M, Linde M. (2008). Movilidad de Coris julis: Análisis de datos de marcado externo y recaptura. V Jornades de Medi Ambient de les Illes Balears, Palma de Mallorca, Spain.
- Alós J, **March D**, Cardona F, Linde M, Álvarez I, Cerdà M, Morales-Nin B, Grau AM, Palmer, M. (2008). Estima de la mortalidad por pesca (F) de Coris julis (L.) a través de la determinación del esfuerzo pesquero por pesca recreativa y de la abundancia de individuos de la Bahía de Palma (Mallorca). V Jornades de Medi Ambient de les Illes Balears, Palma de Mallorca, Spain.
- Cardona F, **March D**, Alós J, Linde M, Palmer M, Morales-Nin B, Martino S, Grau A.M. (2008). Efectos de la pesca sobre la biología de la donzella (Coris julis, Linnaeus 1758). V Jornades de Medi Ambient de les Illes Balears, Palma de Mallorca, Spain
- Royo L, **March D**, Traveset A, Palmer M, Servera J (2007) ¿Es realmente efectiva la protección de zonas de la playa frente al pisoteo para la regeneración de la vegetación pionera? IV Reunión de Geomorfología Litoral. Palma de Mallorca, Spain.

Invited talks

- March D (2013). ICZM and MSP: facilitating tools for solving conflicts and overcoming the science-policy gap. Blue Growth in the Mediterranean: perspectives of Spain. Workshops of the Integrated Maritime Policy in the Mediterranean. Palma de Mallorca, Spain. 16 April 2013.
- March D (2010) Overview on technical development for visualizing fish behaviour in Kleiner Döllnsee. Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany. 27 May 2010.
- March D (2010) Merging GIS and spatial analysis to assess the spatial dynamics of recreational fisheries at Palma Bay. Institute of Sea Fisheries, Hamburg, Germany. 10 May 2010.
- March D (2008). Geospatial applications to assess recreational fisheries & evaluation of a passive acoustic tracking system at Palma Bay. Hawaii Institute of Marine Biology Seminar, Kaneohe, USA. 15 November 2008.
- March D (2007). Geospatial applications to assess recreational fisheries at Palma Bay. OceanLab Seminar, Newburgh, Scotland. 21 November 2007.

PRODUCTS OF RESEARCH

EMODnet MedSea Portal (under development)

<http://www.emodnet-mediterranean.eu/>

Web portal to evaluate the quality of the current monitoring systems in terms of their accessibility, availability, multiple-use, efficiency, reliability, time consistency, space consistency, as well as the planning of technological advancements, new accessibility, new assembly protocols and observational priorities required to meet different Challenges.

- Responsibility: Reviewer of specifications of the GIS portal and services

Supporting the Marine Strategy Framework Directive

<http://www.msfd.eu>

Web resource for policy makers, managers, educational institutions, economic interests, non-governmental institutions and anyone with an interest in the marine environment and the EU Marine Strategy Framework Directive

- Responsibility: Content contributor

GIS-SEAS

<http://knowseas.socib.es/lion>

Web mapping application that displays environmental and socio-economic information to support the EU Marine Strategy Framework Directive. It relies on OGC services and EU INSPIRE Directive.

- Responsibility: Coordinator, Developer
- Technologies: PostGIS, Geoserver, Thredds, Geonetwork, Geoexplorer

SACOSTA (Environmental Sensitivity of the Coastline)

<http://gis.socib.es/sacosta>

Web-based map viewer that displays cartographic data related to the environmental sensitivity of the coastline of the Balearic Islands using OGC services.

- Responsibility: Coordinator, Developer
- Technologies used were: PostGIS, Geoserver, Geonetwork, Geoexplorer

SURDB

PhD Thesis

Information system developed to manage and analyze acoustic tracking data from listening stations.

- Responsibility: Coordinator, Developer
- Technologies used were: Ms Access, SQL, R, GRASS, ArcGIS.

OCEANOGRAPHIC CAMPAIGNS

SESAME IBMALAGA1

2008/07/12 – 2008/07/27

- Survey for validating physical-biological models and couplings in the N Alboran Sea
- Principal investigator: Dr. Ignacio Catalán, IMEDEA

TEACHING

Cumulative anthropogenic pressure mapping in Alcudia Bay

2013

Co-supervisor of two BSc thesis, Van Hall Larenstein Univ. of Applied Sciences

Students: Raissa Borgmann and Max Siegfried

GIS applications in coastal management

2007-2008

Guest Lecturer, BSc in Biology, University of Balearic Islands

Introductory course on R. Spatial data with R

2008

Instructor, Mediterranean Institute of Advanced Studies

MEDIA AND OUTREACH

Scientific advisor of documentary films

- Marenostrum, natural documentary, directed by Ruben Casas
2011 | <https://www.youtube.com/watch?v=ccsvEjR367w>
- Marenostrum al caer el sol, natural documentary, directed by Ruben Casas
2011 | <http://www.youtube.com/watch?v=VdYUZGqmgOk>

Media coverage of research

- Reporter NTV, interview on Perseus Summer School
2013 | <http://www.reporterntv.ro/stire/scoala-de-vara-pentru-cercetatorii-marini-la-constanta>
- Earthzine, interview on marine spatial infrastructures
2012 | <http://www.earthzine.org/2012/11/28/sharing-data-to-keep-european-oceans-healthy/>

Outreach talks

- March D (2009) La utilització de la biotelemetria acústica en l'estudi del moviment dels organismes marins. VIII Setmana de la Ciència i la Tecnologia. IES Santa Maria d'Eivissa
- March D (2009) La utilització de la biotelemetria acústica en l'estudi del moviment d'espècies marines. Cicle conferències de Cala Nova.
- March D (2008) El marcaje electrónico para determinar el movimiento de los peces: el caso local de la vaca, *Serranus scriba*. 2ª jornada de charlas científicas para pescadores recreativos. 8 Marzo 2008. Llucmajor.

PROFESSIONAL TRAINING, CERTIFICATION

- | | |
|--------------------------------|--|
| · GIS software | ArcGIS (ArcMap, Spatial Analyst, ArcScene, ArcGlobe), QGIS, GRASS, OGR/GDAL, Proj4 |
| · Web mapping | Geoserver, GeoWebCache, Geonetwork, OpenLayers, GeoExt, HTML, CSS, Javascript |
| · Database | SQL language, PostgreSQL/PostGIS, MS Access |
| · Programming | R language (main packages: adehabitat, dismo, gbm, spBayes, lme4, raster, gstat, igraph) |
| · Office & Creative | MS Access, MS Word, MS Excel, MS Power Point, Adobe Photoshop, Adobe Lightroom |
| · Operating systems | Windows, familiar with Linux (Ubuntu), iOS, Android |
| · Scuba Diving | Stress & Rescue Diver |
| · Teaching | Postgraduate Certificate in Education (Certificado de Aptitud Pedagógica) |
| · Others | Car driving license, Coastal skipper (Patrón embarcaciones de recreo) |

PERSONAL SKILLS

- Spanish and Catalan mother tongues, proficient in English, basic in French
- Working experience in multicultural and international environments
- Creative and innovative problem solving
- Work confidently within a group
- Able to plan activities and carry them through effectively

HOBBIES AND INTERESTS

- Passion for photography, with a major focus in underwater and travel photography
- Avid chess player (FIDE rating: 2041), with experience in teaching at primary school kids
- Practising team sports like football and padel tennis
- Interest in open source software

SOCIAL MEDIA

- | | |
|------------------|---|
| · Google Scholar | http://scholar.google.es/citations?user=xABsDpAAAAAJ |
| · Research Gate | https://www.researchgate.net/profile/David_March3/ |
| · Linked In | http://www.linkedin.com/in/dmarch |
| · Slide Share | http://www.slideshare.net/davidmarchmorla |
| · Github | https://github.com/dmarch |
| · Twitter | https://twitter.com/dmarch_info |
| · Flickr | https://www.flickr.com/photos/david_march/ |