**Curriculum vitae**

**Name Carlos M. Duarte**

Contact Details

*Tarek Ahmed Juffali Research Chair in Red Sea Ecology*

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**PERSONAL INFORMATION**

Birthdate: *July 27, 1960*

Place of Birth: *Lisbon (Portugal)*

Citizenship: *Spanish*

*Married, one child*

**ACADEMIC EDUCATION**

B.SC. In Biology, *Univ. Autónoma de Madrid, June 1982*

*Ph.D. in Limnology, McGill University (Canada), September 1987*

Thesis supervisor: *Prof. Jacob Kalff*

**PROFESSIONAL HISTORY**

***Current***

*Professor and Tarek Ahmed Juffali Chair in Marine Ecology, Red Sea Research Center, King Abdullah University of Science and Technology, Kingdom of Saudi Arabia (2015 - )*

*Adjunct Professor at Trømso University, Norway (2014 - )*

***Past***

*Distinguised Adjunct Professor, Faculty of Marine Sciences, King Abdulahziz University, Jeddah, Kingdom of Saudi Arabia (2012 – 2015)*

*Director and Winthrop Professor, The UWA Oceans Institute, The University of Western Australia (2011 – 2015)*

Research Professor at the *Instituto Mediterráneo de Estudios Avanzados (IMEDEA), Consejo Superior de Investigaciones Científicas – Universitat de les illes Balears, Mallorca, Spain (1999 – 2015, currently on extended leave)*

*Research Scientist, Centre d’Estudis Avançat de Blanes, Consejo Superior de Investigaciones Científicas, Blanes, Spain (1990 – 1998)*

*Tenure Scientist, Institut de Ciencias del Mar de Barcelona, Consejo Superior de Investigaciones Científicas, Spain (1989 – 1990)*

**CURRENT RESEARCH INTERESTS**

*Marine ecology*

*Comparative analyses of ecosystems*

*Flow of carbon and metabolism in aquatic ecosystems*

*Role of marine biota in biogeochemical fluxes*

*Comparative analyses of phototrophic organisms*

*Microbial ecology*

*Approaches in ecology: Epistemological consequences, Interpreting natural variability, scaling ecological knowledge.*

*Global Carbon Cycling*

*Science in support of policy and management towards sustainable use of ecosystems*

*Global Change and aquatic ecosystems*

*Ocean Solutions to Humanity’s Grand Challenges*

**CURRENT RESEARCH AREAS**

*Europe*

*Mediterranean*

*Red Sea*

*Tropical Ocean*

*Australia*

*Central Atlantic Ocean*

*Antarctica*

*Arctic*

*SE Asia*

*Caribbean*

*Florida*

*Pacific Ocean*

*Global Ocean*

**Committees and Advisory Boards**

Reviewer of the Netherlands Institute of Ecology, Royal Academy of Science, The Netherlands.

Reviewer for the Biological Oceanographic Department, Observatorio Geofísico i Experimentale, Trieste, Italy (2006 – 2007).

Member of the Scientific Advisory Comitee del Plymouth Marine laboratory, Plymouth, UK (2007 - ).

Member of the Scientific Council of the Stazione Zoologica, Napoles, Italia (2008 - ).

Member of the Scientific Council of the European Research Council (2009- 2013).

Member of the Scientific Advisory Board del Finnish Environment Institute SYKE (2010 - )

Member of the International Advisory Board of the Institute of Environmental Hydaulics, Univ. of Cantabria (2010 - ).

Member of the del Internacional Scientific Advisory Board of the International Campus of Excelence "Campus do Mar", Vigo (2010- ).

Member of the Scientific Advisory Board of the Tara Oceans Expeditions (2011 - ).

Member of the Advisory Board, Institute of Advanced Studies, University of Western Australia (2011 - ).

**PUBLICATIONS**

**1986**

1. **Duarte**, C.M., y J. Kalff. 1986. Littoral slope as a predictor of the maximum biomass of submerged macrophyte communities. Limnol. Oceanogr. 31: 1072-1080.
2. **Duarte**, C.M., J. Kalff, y R.H. Peters. 1986. Patterns in biomass and cover of aquatic macrophytes in lakes. Can. J. Fish. Aquat. Sci. 43: 1900-1908.

**1987**

1. **Duarte**, C.M., y J. Kalff. 1987. Weight-density relationships in submerged macrophytes: the importance of light and plant geometry. Oecologia (Berlin) 72: 612-617.
2. Agusti, S., C.M. **Duarte**, y J. Kalff. 1987. Algal cell size and the maximum density and biomass of phytoplankton. Limnol. Oceanogr. 32: 983-986.
3. **Duarte**, C.M. 1987. Use of echosounder tracings to estimate the aboveground biomass of submerged plants in lakes. Can. J. Fish. Aquat. Sci. 44: 732-735.
4. **Duarte**, C.M., y J. Kalff. 1987. Latitudinal influences on the depths of maximum colonization and maximum biomass of submerged angiosperms in lakes. Can. J. Fish. Aquat. Sci. 44: 1759-1764.
5. **Duarte**, C.M., S. Agusti, y R.H. Peters. 1987. An upper limit to the abundance of aquatic organisms. Oecologia 74: 272-276.
6. **Duarte**, C.M., D.F. Bird, y J. Kalff. 1987. Submerged macrophytes and sediment bacteria in the littoral zone of lake Memphremagog (Canada). Verh. Internat. verein Limnol. 23: 271-281.

**1988**

1. **Duarte**, C.M., y J. Kalff. 1988. Influence of lake morphometry on the response of submerged macrophytes to sediment fertilization. Can. J. Fish. Aquat. Sci. 45: 216-221.
2. Canfield, D.E.Jr., y C.M. **Duarte**. 1988. Patterns in biomass and cover of aquatic macrophytes in lakes: A test with Florida lakes. Can. J. Fish. Aquat. Sci. 45: 1976-1982.

**1989**

1. **Duarte**, C.M. 1989. Temporal biomass variability and production/biomass relationships of seagrass communities. Mar. Ecol. Progr. Ser. 51: 269-276.
2. Prairie, Y.-T., C.M. **Duarte**, y J. Kalff. 1989. Unifying nutrient-chlorophyll relationships in lakes. Can. J. Fish. Aquat. Sci. 46: 1176-1182.
3. Marrasé, C., C.M. **Duarte**, y D. Vaque. 1989. Succession patterns of phytoplankton blooms: directionality and infuence of algal cell size. Mar. Biol. 102: 43-48.
4. Masó, M., y C.M. **Duarte**. 1989. The spatial and temporal structure of hydrographic and phytoplankton biomass heterogeneity along the Catalan Coast (NW Mediterranean). J. Mar. Res. 47: 813-827.
5. Vaqué, D., C.M. **Duarte**, y C. Marrase. 1989. Phytoplankton colonization by bacteria: encounter probability as a limiting factor. Mar. Ecol. Progr. Ser. 54: 137-140.
6. **Duarte**, C.M., and J. Kalff. 1989. The influence of catchment geology and lake depth on phytoplankton biomass. Arch. Hydrobiol. 115: 27-40.
7. Canfield, D.E., Jr., E. Phlips, y C.M. **Duarte**. 1989. Factors influencing the abundance of blue-green algae in Florida lakes. Can. J. Fish. Aquat. Sci. 46: 1232-1237.
8. Bird, D.F., and C.M. **Duarte**. 1989. Bacteria organic matter relationships in sediments: a case of spurious correlation. Can. J. Fish. Aquat. Sci. 46: 904-908.
9. **Duarte**, C.M., y M. Alcaraz. 1989. To produce many small or few, large eggs. A size-independent reproductive tactic of fish. Oecologia (Berlin) 80: 401-404.

**1990**

1. **Duarte**, C.M., y J. Kalff. 1990. Biomass density and the relationship between submerged macrophyte biomass and plant growth form. Hydrobiologia 196: 17-23.
2. **Duarte**, C.M., y J. Kalff. 1990. Patterns in the submerged macrophyte biomass of lakes and the importance of the scale of analysis in the interpretation. Can. J. Fish. Aquat. Sci. 47: 357- 363.
3. **Duarte**, C.M., C. Marrase, D. Vaque, y M. Estrada. 1990. Counting error and the quantitative analysis of phytoplankton communities. J. Plankton Res. 12: 295-304.
4. Agusti, S., C.M. **Duarte**, y D.E. Canfield, Jr. 1990. Phytoplankton abundance in Florida lakes: Evidence for the frequent lack of nutrient limitation. Limnol. Oceanogr. 35: 181-188.
5. **Duarte**, C.M., y D.E. Canfield, Jr. 1990. Light absorption in Florida springs. Florida Scientist 53: 118-122.
6. **Duarte**, C.M. 1990. Time lags in algal growth: generality, causes and consequences. J. Plank. Res. 12: 873-883.
7. **Duarte**, C.M., y D.E. Canfield, Jr. 1990. Macrophyte standing crop and primary productivity in some Florida spring-runs. Water Resour. Bull. 26: 927-934.
8. Canfield, D.E.Jr., M.V. Hoyer, y C.M. **Duarte**. 1990. An empirical method for characterizing standing crops of aquatic vegetation. J. Aquat. Plant Manage. 28: 64-69.
9. Vaque, D., **Duarte**, C.M., y C. Marrase. 1990. Influence of algal population dynamics on phytoplankton colonization by bacteria: evidence from two diatom species. Mar. Ecol. Progr. Ser. 65: 201-203.
10. **Duarte**, C.M., y K. Sand-Jensen. 1990. Seagrass colonization: Patch formation and patch growth in Cymodocea nodosa. Mar. Ecol. Progr. Ser. 65: 193-200.
11. **Duarte**, C.M., y K. Sand-Jensen. 1990. Seagrass colonization: Biomass development and shoot demography in Cymodocea nodosa patches. Mar. Ecol.Progr. Ser. 67: 97-103.
12. **Duarte**, C.M. 1990. Seagrass nutrient content. Mar. Ecol. Progr. Ser. 67: 201-207.
13. **Duarte**, C.M., S. Agustí, and D.E. Canfield, Jr. 1990. Size plasticity of freshwater phytoplankton: Implications for community structure. Limnol. Oceanogr. 35: 1846-1851.

**1991**

1. Gordoa, A., and C.M. **Duarte**. 1991. Size-dependent spatial distribution of hake (Merluccius capensis and Merluccius paradoxus) in Namibian waters. Can. J. Fish. Aquat. Sci. 48: 2095-2099.
2. Agustí, S., C.M. **Duarte**, and D.E. Canfield, Jr. 1991. Biomass partitioning in Florida phytoplankton communities. J. Plankton Res. 13: 239-245.
3. **Duarte**, C.M. 1991. Seagrass depth limits. Aquat. Bot. 40: 363-377.
4. Pérez, M., J. Romero, C.M. **Duarte**, and K. Sand-Jensen. 1991. Phosphorus limitation of Cymodocea nodosa growth. Mar. Biol. 109: 129-133.
5. **Duarte**, C.M., and D.A. Roff. 1991. Architectural and life-history constraints to submersed macrophyte community structure: A simulation study. Aquat. Bot. 42: 15-30.
6. MacPhearson, E., and C.M. **Duarte**. 1991. Bathymetric trends in demersal fish size: Is there a general relationship? Marine Ecology Progress Series 71: 103-112.
7. **Duarte**, C.M. 1991. Allometric scaling of seagrass form and productivity. Mar. Ecol. Progr. Ser. 77: 289-300.
8. **\*Duarte**, C.M. 1991. Variance and the description of nature. pp. 301-318, In J.J. Cole, G. Lovett, and S. Findlay (eds.) Comparative ecology of ecosystems: patterns, mechanisms, and theories. Springer-Verlag, N.Y.
9. Peters, R.H., J.J. Armesto, B. Boeken, J.J. Cole, C.T. Driscoll, C.M. **Duarte**, T.M. Frost, J.P. Grime, and S.H. Hurlbert. 1991.On the relevance of comparative ecology to the larger field of ecology. pp. 46-63, In J.J. Cole, G. Lovett, and S. Findlay (eds.) Comparative ecology of ecosystems: patterns, mechanisms, and theories. Springer-Verlag, N.Y.

**1992**

1. **Duarte**, C.M., Masó, M., and M. Merino. 1992. The relationship between mesoscale phytoplankton heterogeneity and hydrographic variability. Deep-Sea Res. 39: 45-54.
2. **Duarte**, C.M. 1992. Nutrient concentration of aquatic plants: Patterns across species. Limnology and Oceanography 37: 882-889.
3. **Duarte**, C.M., Agusti, S., y D.E. Canfield, Jr. 1992. Patterns in phytoplankton community structure in Florida lakes. Limnology and Oceanography 37: 155-161.
4. Agustí, S., C.M. **Duarte**, and D.E. Canfield, Jr. 1992. Self-regulation, bottom-up and top-down control of phytoplankton communities: A reply to the comment by Kamenir. Limnol. Oceanogr. 37: 683-687.
5. **Duarte**, C.M., y D. Vaqué. 1992. Scale dependence of bacterioplankton patchiness. Marine Ecology Progress Series 84: 95-100.
6. Gordoa, A., and C.M. **Duarte**. 1992. Size-dependent density of the demersal fish off Namibia: patterns within and among species. Can. J. Fish. Aquat. Sci. 48: 1887-1895.
7. **Duarte**, C.M., Cebrián, J., and N. Marbá. 1992. Uncertainty of detecting sea change. Nature 356: 190.
8. Gallegos, M.E., N. Marbá, M. Merino, and C.M. **Duarte**. 1992. Flowering of Thalassia testudinum Banks ex König in the Mexican Caribbean: Age-dependence and interannual variability. Aquat. Bot. 43: 249-255.
9. Enríquez, S., S. Agustí, and C.M. **Duarte**. 1992. Light absorption by seagrass (Posidonia oceanica (L.) Delile) leaves. Marine Ecology Progress Series 86: 201-204.

**1993**

1. Gallegos, M.E., M. Merino, N. Marbá, and C.M. **Duarte**. 1993. Biomass and dynamics of Thalassia testudinum in the Mexican Caribbean: elucidating rhizome growth. Marine Ecology Progress Series 95: 185-192.
2. Enríquez, S., C. M. **Duarte**, and K. Sand-Jensen. 1993. Patterns in decomposition rates among photosynthetic organisms: the importance of detritus C:N:P content. Oecologia 94: 457-471.
3. Grillas, P., P. García-Murillo, O. Geertz-Hansen, N. Marbá, C. Montes, y C.M. **Duarte**. 1993. Submerged macrophyte seed bank in a mediterranean temporary marsh: Abundance and relationship with established vegetation. Oecologia. 94: 1-6.

**1994**

1. Marbá, N., M. E. Gallegos, M. Merino, and C.M. **Duarte**. 1994. Vertical growth of Thalassia testudinum: Seasonal and interannual variability. Aquatic Botany 47: 1-11.
2. Pérez, M., C.M. **Duarte**, J. Romero, K. Sand-Jensen, and T. Alcoverro. 1994. Growth plasticity in Cymodocea nodosa stands: The importance of nutrient supply. Aquatic Botany 47: 249-264.
3. Enríquez, S., S. Agustí, and C.M. **Duarte**. 1994. Light absorption by marine macrophytes. Oecologia 98: 121-129.
4. Agustí, S., S. Enríquez, H. Christensen, K. Sand-Jensen, y C.M. **Duarte**. 1994. Light harvesting among photosynthetic organisms. Functional Ecology 8: 273-279.
5. Marbà, N., J. Cebrián, S. Enríquez, and C.M. **Duarte**. 1994. Migration of large-scale subaqueous bedforms measured with seagrasses (Cymodocea nodosa) as tracers. Limnol. Oceanogr. 39: 126-133.
6. Bravo, M.A., C.M. **Duarte**, C. Montes. 1994. Environmental factors controlling the life history of Procamburus clarkii (Decapoda, Cambaridae) ina temporary marsh of the Doñana National Park (Sw Spain). Verh. Internat. verein Limnol. 25: 2450-2353..
7. Sand-Jensen, K., D. Jacobsen, y Carlos M. **Duarte**. 1994. Herbivory and resulting plant damage. Oikos 69: 545-549.
8. Cebrián, J., y C.M. **Duarte**. 1994. The dependence of herbivory on growth rate in natural plant communities. Functional Ecology 8: 518-525.
9. **Duarte**, C.M., N. Marbà, N. Agawin, J. Cebrián, S. Enríquez, M.D. Fortes, M.E. Gallegos, M. Merino, B. Olesen, K. Sand-Jensen, J. Uri, and J. Vermaat. 1994. Reconstruction of seagrass dynamics: age determinations and associated tools for the seagrass ecologist. Marine Ecology Progress Series 107: 195-209.
10. **Duarte**, C.M. , Planas, D., J. Peñuelas. 1994. Macrophytes, taking control of an ancestral home. pp. 59-79. In, R. Margalef (ed.) Limnology Now, A paradigm of planetary problems. Elsevier, Amsterdam.
11. Marbá, N. y C.M. **Duarte**. 1994. Growth response of the seagrass Cymodocea nodosa to experimental burial and erosion. Marine Ecology Progress Series 107: 307-311.
12. Gallegos, M.E., M. Merino, A. Rodriguez, N. Marbá, and Carlos M. **Duarte**. 1994. Growth patterns and demography of pioneer Caribbean seagrasses (Halodule wrightii and Syringodium filiforme). Marine Ecology Progress Series 109: 99-104.
13. Vaqué, D., S. Agusti, C. M. **Duarte**, S. Enriquez, y O. Geertz-Hansen. 1994. Microbial heterotrophs within Codium bursa : a naturally isolated microbial Food Web. Marine Ecology Progress Series 109: 275-282.
14. Geertz-Hansen, O., S.Enriquez, C. M. **Duarte**, S. Agustí, D. Vaqué, y B. Vidondo. 1994. Functional implications of the form of Codium bursa, a balloon-like Mediterranean macroalga. Marine Ecology Progress Series 108: 153-160.
15. Cebrián, J., N. Marbá, y C.M. **Duarte**. 1994. Estimating leaf age of the seagrass (Posidonia oceanica (L.) Delile using the plastochrone interval index. Aquatic Botany 49: 59-65.
16. Macpherson, E., y C.M. **Duarte**. 1994. Patterns in species size, richness, and latitudinal range of East Atlantic fishes: Depth and Latitudinal covariation. Ecography 17: 242-248.

**1995**

1. Alcoverro, T., C.M. **Duarte**, y J. Romero. 1995. Annual growth dynamics of Posidonia oceanica: Contribution of large-scale versus local factors to seasonality. Marine Ecology Progress Series 120: 203-210.
2. **Duarte**, C.M. 1995. Submerged aquatic vegetation in relation to different nutrient regimes. Ophelia 41: (Dinamarca) 41: 87-112.
3. Marbà, N., and C.M. **Duarte**. 1995. Coupling of seagrass (Cymodocea nodosa) patch dynamics to subaqueous dune migration. Journal of Ecology 83: 381-389.
4. López, N.I., C.M. **Duarte**, F. Vallespinós, J. Romero, y T. Alcoverro. 1995. Bacterial activity in NW Mediterranean seagrass (Posidonia oceanica) sediments. Journal of Experimental Marine Biology and Ecology 187: 39-49.
5. Enríquez, S., C.M. **Duarte**, y K. Sand-Jensen. 1995. Patterns in the photosynthetic metabolism of Mediterranean macrophytes. Marine Ecology Progress Series 119: 243-252.
6. Cebrián, J., y C.M. **Duarte**. 1995. Plant growth-rate dependence of detrital carbon storage in ecosystems. Science 268: 1606-1608.
7. Vidondo, B., y C.M. **Duarte**. 1995. Seasonal growth of Codium bursa, a slow-growing Mediterranean macroalga: in situ experimental evidence of nutrient limitation. Marine Ecology Progress Series 123: 185-191.
8. **Duarte**, C.M., M. Merino, y M. Gallegos. 1995. Evidence of iron deficiency in seagrasses growing above carbonate sediments. Limnology and Oceanography 40: 1153-1158.
9. **Duarte**, C.M., K. Sand-Jensen, S.L. Nielsen, S. Enríquez, y S. Agustí. 1995. Comparative functional plant ecology: Rationale and potentials. Trends in Ecology and Evolution 10 : 418-421.
10. Vermaat, J.E., Fortes, M.D., Agawin, N., **Duarte**, C.M., Marbá, N., and Uri, J. 1995. Meadow maintenance, growth, and productivity of a mixed Philippine seagrass bed. Marine Ecology Progress Series 124: 215-255.
11. Gasol, J.M., P.A. del Giorgio, R. Massana, y C.M. **Duarte**. 1995. Active vs. inactive bacteria: size-dependence in a coastal marine plankton community. Marine Ecology Progress Series 128: 91-97.

**1996**

1. Mura, M.P., S. Agustí, P. del Girogio, J. Gasol, D. Vaqué, y C.M. **Duarte**. 1996. Loss-controlled phytoplankton production in nutrient-poor littoral waters of the NW Mediterranean: in situ experimental evidence. Marine Ecology Progress Series 130: 213-219.
2. Cebrián, J., C.M. **Duarte**, N. Marbá, S. Enríquez, M. Gallegos, and B. Olesen. 1996. Herbivory on Posidonia oceanica: Magnitude and variability in the Spanish Mediterranean. Marine Ecology Progress Series 130: 147-155.
3. Marbá, N., J. Cebrián, S. Enríquez, y C.M. **Duarte**. 1996. Growth patterns of Western Mediterranean seagrasses: species-specific responses to seasonal forcing. Marine Ecology Progress Series 133: 203-215.
4. Nielsen, S.L., S. Enríquez, C.M. **Duarte**, y K. Sand-Jensen. 1996. Scaling of maximum growth rates across photosynthetic organisms. Functional Ecology 10: 167-175.
5. Satta, M.P., S. Agustí, M.P. Mura, y C.M. **Duarte**. 1996. Microplankton respiration and net community metabolism in a bay on the N.W. Mediterranean coast. Aquatic Microbial Ecology 10: 165-172.
6. Marbá, N., C.M. **Duarte**, J. Cebrián, S. Enríquez, M.E. Gallegos, B. Olesen, K. Sand-Jensen. 1996. Growth and population dynamics of Posidonia oceanica on the Spanish Mediterranean coast: elucidating seagrass decline. Marine Ecology Progress Series 137: 203-213.
7. Agawin, N.S.R., C.M. **Duarte**, y M.D. Fortes. 1996. Nutrient limitation of Philippine seagrasses (Cape Bolinao, NW Philippines): In situ experimental evidence. Marine Ecology Progress Series 138: 233-243.
8. **Duarte**, C.M., y K. Sand-Jensen. 1996. Nutrient constraints on establishment from seed and on vegetative expansion of the Mediterranean seagrass Cymodocea nodosa. Aquatic Botany 54: 279-286.
9. Enríquez, S., S.L. Nielsen, C.M. **Duarte**, y K. Sand-Jensen. 1996. Broad-scale comparison of photosynthetic rates across phototrophic organisms. Oecologia (Berlin) 108: 197-206.
10. **Duarte**, C.M., Hemminga, M., y N. Marbá. 1996. Growth and population dynamics of Thalassodendron ciliatum in a Kenyan back-reef lagoon. Aquat. Bot. 55: 1-11.

# Prairie, Y. T., y C.M. Duarte. 1996. Weak density-dependence and short-term perturbations as determinants of phytoplankton temporal dynamics. Ecoscience 3: 451-460.

1. del Giorgio, P.A., J.M. Gasol, D. Vaqué, P. Mura, S. Agustí, y C.M. **Duarte**. 1996. Bacterioplankton community structure: Protists control net production and the proportion of active bacteria in a coastal marine community. Limnology and Oceanography 41: 1169-1179.
2. Cebrián, J., C.M. **Duarte**, y N. Marbá. 1996. Herbivory on the seagrass Cymodocea nodosa (Ucria) ascherson in contrasting Spanish Mediterranean habitats. J. Exp. Mar. Biol. Ecol. 204: 103-111.
3. Cebrián, J., C.M. **Duarte**, y J. Pascual. 1996. Marine climate in the NW Mediterranean littoral. In: **Duarte**, C.M. (ed.). Seasonality in the Blanes Bay: a paradigm of the northwest Mediterranean littoral. Publ. Espec. Inst. Esp. Oceanogr. 22: 9-21. Instituto Español de Occeanografía, Madrid.
4. Andreu, P., y C.M. **Duarte**. 1996. Seasonality of zooplankton in the Bay of Blanes. pp 47-54. In: **Duarte**, C.M. (ed.). Seasonality in the Blanes Bay: a paradigm of the northwest Mediterranean littoral. Publ. Espec. Inst. Esp. Oceanogr. 22: 47-54. Instituto Español de Oceanografía, Madrid.
5. Satta, M.P., S. Agustí, M.P. Mura, y C.M. **Duarte**. 1996. Gross planktonic primary production in the Bay of Blanes (1992-1994). In: **Duarte**, C.M. (ed.). Seasonality in the Blanes Bay: a paradigm of the northwest Mediterranean littoral. Publ. Espec. Inst. Esp. Oceanogr. 22: 31-38. Instituto Español de Occeanografía, Madrid.
6. **Duarte**, C.M. (ed.). Seasonality in the Blanes Bay: a paradigm of the northwest Mediterranean littoral. Publ. Espec. Inst. Esp. Oceanogr. 22. Instituto Español de Occeanografía, Madrid.
7. **Duarte**, C.M. y J. Cebrián. 1996. The fate of marine autotrophic production. Limnology and Oceanography 41: 1758-1766.

**1997**

1. Vaqué, D., H.A. Blough, y C.M. **Duarte**. 1997. Dynamics of ciliate abundance, biomass and community composition in an oligotrophic coastal environment (NW Mediterranean. Aquatic Microbial Ecology 12: 71-83.
2. Alcoverro, T., J. Romero, C.M. Duarte, y N.I. López. 1997. Spatial and temporal variations in nutrient limitation of seagrass Posidonia oceanica growth in the NW Mediterranean. Marine Ecology Progress Series 146: 155-161.
3. Durako, M.J., y C.M. **Duarte**. 1997. On the use of reconstructive aging techniques for assesing seagrass demography: a critique of he model test of Jensen et al. (1996). Marine Ecology Progress Series 146: 297-303.
4. Vidondo, B., Y.T. Prairie, J.M. Blanco, y C.M. **Duarte**. 1997. Some aspects of the analysis of size spectra in aquatic ecology. Limnology and Oceanography Limnol. Oceanogr. 42: 184-192.
5. **Duarte**, C.M., J. Terrados, N.S.W. Agawin, M.D. Fortes, S. Bach, W.J. Kenworthy. 1997. Response of a mixed Philippine seagrass meadow to experimental burial. Marine Ecology Progress Series 147: 285-294.
6. Alcoverro, T., C.M. **Duarte**, y J. Romero. 1997. The influence of herbivores on Posidonia oceanica epiphytes. Aquatic Botany 56: 93-104.
7. Terrados, J., C.M. **Duarte**, y W.J. Kenworthy. 1997. Experimental evidence for apical dominance in the seagrass Cymodocea nodosa (Ucria) Ascherson. Marine Ecology Progress Series 147: 263-268.
8. **Duarte**, C.M., J.M. Gasol, y D. Vaqué. 1997. Role of experimental approaches in marine microbial ecology. Aquatic Microbial Ecology 13: 101-111.
9. Cebrián, J., C.M. **Duarte**, N.Marbá, y S. Enríquez. 1997. Magnitude and fate of the production of four co-occurring Western Mediterranean seagrass species. Marine Ecology Progres Series 155: 29-44.
10. Cebrián, J., C.M. **Duarte**, N.Marbá, y S. Enríquez. 1997. Erratum: Magnitude and fate of the production of four co-occurring Western Mediterranean seagrass species. Marine Ecology Progres Series 155: 29-44.
11. Terrados J., C.M. **Duarte**, y W.J. Kenworthy. 1997. Is the the apical growth of Cymodocea nodosa dependant on clonal integration?. Marine Ecology Progress Series 158: 103-110.
12. Vidondo, B., A.L. Middleboe, K. Stefansen, T. Lützen, S.L. Nielsen, C.M. **Duarte**. 1997. Dynamics of a landscape mosaic: Size and age distributions, growth and demography of seagrass Cymodocea nodosa patches. Marine Ecology Progress Series 158: 131-138.
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(contributing author to the chapter of WGII of the IPCC AR5, Figures from papers I co-authored reproduced in Figure OA-1, Figure MB-1 with 29 papers I authored being cited in the reports of WG1 and WG2).

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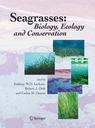
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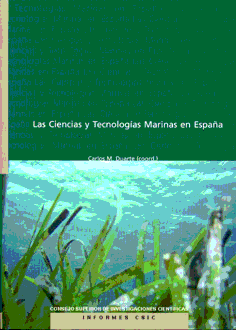


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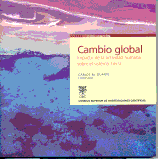
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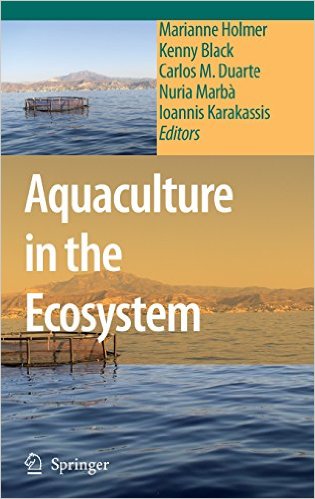


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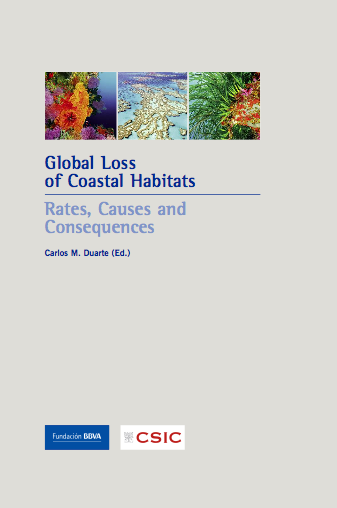


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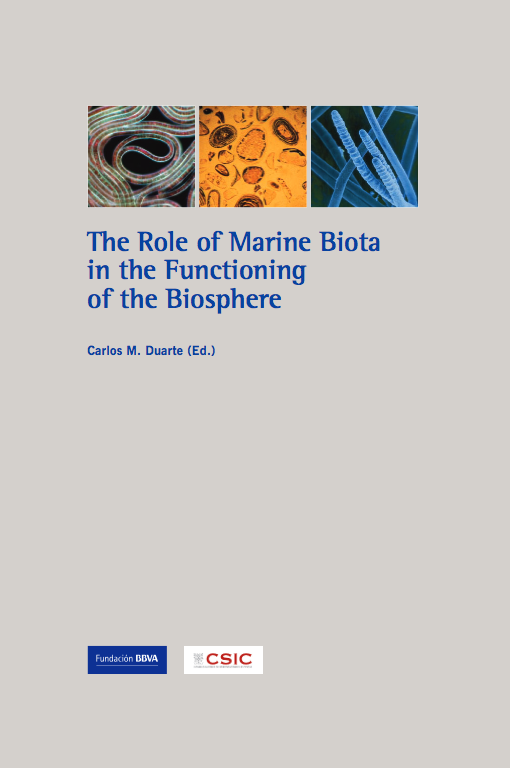
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50. **Duarte, C.M**. 2007. Climate change impacts on aquatic ecosystems: critical thresholds for water policies. pp. 69-70, In: M. Moren-Abat, P. Quevuviller, L. Reyen, A.-S. Heiskanen, P. Noges, A. L. Solheim and E. Lipiatou (eds). Climate change impacts on the water cycle, resources and quality. Climate Change and Natural Hazards Series vol. 8. European Comisión, Brussels.
51. Duarte, C.M. 2008. The garden of Eden engangered: the ecology and biology of conservation. pp. 225-237. In: Frontiers of Knolwedge, BBVA, Madrid.
52. Carrillo De Albornoz, P., Royo, L., Marbà, N., Duarte, C. M., 2009. 1160 Grandes calas y bahías poco profundas. En: VV.AA., Bases ecológicas preliminares para la conservación de los tipos de hábitat de interés comunitario en España. Madrid: Ministerio de Medio Ambiente, y Medio Rural y Marino. 86 p.

**Data sets published**

Regaudie-de-Gioux, A., and **C.M. Duarte**. 2013. Plankton Metabolism in the Ocean. Digital CSIC.URI <https://digital.csic.es/handle/10261/65674>

Mazarrasa, I., N. Marbà, I.E. Hendriks, I.J. Losada and **C.M. Duarte**. 2013. Estimates of average sediment accretion rates in vegetated coastal habitats around the world. Digital CSIC. URI: <http://hdl.handle.net/10261/77396>

Barrón, C. and **C.M. Duarte**. 2013. Dataset compiling dissolved organic carbon concentrations in coastal waters. Digital CSIC. URI: <http://hdl.handle.net/10261/84981>

### Marbà, N., E. Diaz-Almela, C.M. Duarte. 2013. Posidonia oceanica changes in the Mediterranean sea. Digital CSIC. URI: <http://digital.csic.es/handle/10261/88165>

**Duarte, C.M**. 2013. Data set on the joint use of shells and red ochre by humans. Digital CSIC.URI: <http://digital.csic.es/handle/10261/100867>

Regaudie-De-Gioux, A., S. Lasternas, S. Agustí, **C.M. Duarte**. 2014.  Dataset compiling oceanic volumetric (mmol O2 or C m-3 d-1) metabolism rates from the dark-light method (GPP-DO), the 14C method (14C-TOC for total organic carbon and 14C-POC for particulate organic production), the 18O method (GPP-18O), the FRRF method (GPP-O2-FRRF) and the 13C method (13C-POC) from published  works. Digital CSIC. URI <http://digital.csic.es/handle/10261/100955>

Arrieta, J.M., Mayol, E., Hansman, R. L., Herndl, G. J., Dittmar, T., **Duarte, C.M**. 2015. Experimental evaluation of the hypothesis that dilution limits DOC utilization in the deep ocean. Digital CSIC. URI <http://digital.csic.es/handle/10261/111563>

Condon RH, Lucas CH, **Duarte CM**, Pitt KA, Haddock SHD, Madin LP, Brodeur RD, Sutherland KR, Mianzan HW, Purcell JE, Decker MB, Uye S-I, Malej A, Bogeberg M, Everett J, Gibbons M, Gonzalez H, Hay S, Hensche N, Hobson RJ, Kingsford MJ, Kremer P, Lehtiniemi M, Ohman M, Rissik D, Sheard K, Suthers I, Coleman N, Costello JH, Gershwin LA, Graham WM, Robinson KL, Richardson TM, Giesecke R, Gorsky G, Greve W, Halsband-Lenk C, Hays G, Hobson V, Klein D, Lebrato M, Loveridge J, Martens P, Milos C, Perry G, Stemmann L, Sullivan B, Walker T, Schildhauer M and Regetz, J (2014). Jellyfish Database Initiative (JeDI) <http://www.bco-dmo.org/dataset/526852>. DOI: 10.1575/1912/7191

Krause-Jensen, D., Duarte, C. M., Hendriks, I. E., Meire, L., Blicher, M. E., Marbà, N. and Sejr, M.K. 2015. Nested scales of pH variability in sub-Arctic Kobbefjord, SW Greenland",

DIGITAL.CSIC,<http://hdl.handle.net/10261/112946>.

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Mazarrasa, Inés; Marbà, Núria; Lovelock, Catherine E.; Serrano, Oscar; Lavery, Paul S.; Fourqurean, James W.; Kennedy, Hillary; Mateo, Miguel Ángel; Krause-Jensen, Dorte; Steven, Andy D. L.; Duarte, Carlos M., "Sediment inorganic carbon (PIC) deposits in seagrass meadows and adjacent sand-patches". 2015, DIGITAL.CSIC, <http://hdl.handle.net/10261/116550>

**Grants**

**Macrophyte abundance and distribution in E. Canadian lakes**

McGill Limnology Research Center, Canadá

Nat. Eng. & Sc. Council of Canada

1984 1987

PI Dr. Jacob Kalff

\_\_\_

**Lake Memphremagog: An ecosystem model**

McGill Limnology Research Center, Canadá

NSERC (Nat. Eng. & Sc. Council of Canada)

1984-1987

Dr. Jacob Kalff

\_\_\_

**Ecology of Florida Springs**

Dept. of Fisheries and Aquaculture, Univ. of Florida, USA

Florida Dept. Natural Resources

1987-88

Dr. Daniel E. Canfield

\_\_\_

**Limitación de la extensión vertical de las praderas de fanerógamas marinas**

**del Delta del Ebro**

Instituto de Ciencias del Mar, CSIC, Barcelona.

CIRIT (Generalitat de Catalunya)

1988

Dr. Carlos M. Duarte

\_\_

**Limitación por nutrientes del crecimiento de fanerógamas marinas**

Instituto de Ciencias del Mar, CSIC, Barcelona.

Caixa de Catalunya

1988

Dr. Carlos M. Duarte

\_\_\_

### Estudio Integrado del Delta del Ebro: factores determinantes de la produccion biologica. Instituto de Ciencias del Mar, CSIC, Barcelona. CAICYT

1985-1987

Jordi Camp

\_\_\_

**Acoplamiento entre procesos físicos y biologicos en un estuario**:

Implicaciones para la produccion biologica.

### Instituto de Ciencias del Mar, CSIC, Barcelona. CICYT

1990-1992

Jordi Camp

**Recuperación de fondos arenosos litorales**:

Procesos de fijación y afianzamiento de sedimentos arenosos por angiospermas marinas.

Centro de Estudios Avanzados de Blanes, CSIC.

Fundación Ramón Areces

5/12/90 - 4/12/92

Dr. Carlos M. Duarte

\_\_\_

### Gestión integral del cangrejo rojo amerciano en el Parque Nacional de Doñana

### ICONA

Centro de Estudios Avanzados de Blanes, CSIC.

1991-1992

Dr. Carlos Montes del Olmo.

\_\_\_

**Comunidades de angiospermas marinas en la costa portuguesa y española: Prospección y evaluación de su papel**

Centro de Estudios Avanzados de Blanes, CSIC.

MEC - Subdirección Integral de Cooperación Internacional

1-1-91 ..31-12-91

Dr. Carlos M. Duarte

\_\_\_

**Regulación de la producción biológica en el litoral Mediterráneo**

Centro de Estudios Avanzados de Blanes, CSIC. CICYT MAR-91-0503

1991-1993

Dr. Carlos M. Duarte

\_\_\_

**Colonización de pastos marinos en zonas perturbadas del Caribe Mexicano**

Agencia Española de Cooperación con Iberoamérica

Centro de Estudios Avanzados de Blanes, CSIC.

1991-1992

Dr. Carlos M. Duarte

\_\_\_

**Latitudinal variation in life history patterns and survival mechanisms in selected seagrass species as a basis for environmental impact assessment**

Centro de Estudios Avanzados de Blanes, CSIC.

CE - STD2 Ref.: CI1\*-CT91-0952 (HSMU)

1992-1994

Dr. Carlos M. Duarte

\_\_\_

**Balance metabólico en la zona de mezcla del Océano Antártico**

Centro de Estudios Avanzados de Blanes, CSIC.

### CICYT

1992-1993

I.P. Susana Agustí

\_\_\_

**Desacoplamiento entre producción primaria y heterotrófica en el océano Antártico: causas y consecuencias.**

Centro de Estudios Avanzados de Blanes, CSIC.

### CICYT ANT-93-0490

1992-1993

I.P. Susana Agustí

\_\_\_

**Acoplamiento entre praderas de angiospermas marinas y poblaciones de peces con un papel clave en el litoral Mediterráneo.**

Centro de Estudios Avanzados de Blanes, CSIC.

### CICYT AMB-118-93

1993-1995

I.P. Carlos Duarte

\_\_\_

**Controle environmental de la structure et du fonction des ecosystemes plactoniques**:

Effects des facteurs ecologiques allocthones et autochtones - Analyse comparatives en milieu d’eau douce et marin.

Centro de Estudios Avanzados de Blanes, CSIC & McGill University, Montreal (Canada).

FCAR - Quebec, Canada.

1994-1995

I.P. Rob H. Peters & Carlos M. Duarte

\_\_\_

**Consequences of deforestation-derived siltation in coastal ecosystems in S.E. Asia.**

Centro de Estudios Avanzados de Blanes, CSIC.

CE - STD3 Ref.:

1995-1997

Dr. Carlos M. Duarte (coordinador)

\_\_\_

**Disponibilidad de nutrientes y predación como reguladores de la producción biológica del litoral Mediterráneo.**

### CICYT AMB94-0746

1994-1997.

Dr. Carlos M. Duarte

\_\_\_

**Patrones latitudinales en la regulación de la producción planctónica oceánica.**

### CICYT AMB 739/94

1994-1996

Dra Susana Agustí

\_\_\_

**Las marcas de microcrecimiento sobre las superficies y secciones de conchas de moluscos como indicadoras de cambio climático.**

Acción Integrada Hispano-Británica 50 B.

1995-1997

Dr. Carlos M. Duarte

\_\_\_

**Comparative analysis of food-webs based on flow networks (COMWEB)**

MAST-III (CE), cofinanciado por el PN de I+D (CYTMAR MAR96-1715-CE)

1996-1999

Dr. Carlos M. Duarte (PI español)

\_\_\_

**Physical forcing and biogeochemical fluxes in shallow coastal ecosystems.** (PhaSE)

MAST-III (CE), cofinanciado por el PN de I+D (CYTMAR MAR96-2383-CE)

1996-1999

Dr. Carlos M. Duarte (PI español)

\_\_\_

**Cambios recientes (1970-presente) en la temperatura superficial del Mediterráneo:** Reconstrucción a partir del uso de isótopos estables en conchas de bivalvos longevos como Paleotermómetros.

Plan Nacional del Clima (CICYT, CLI95-1805).

1996-1998

Dr. Carlos M. Duarte

\_\_\_

## Effects of Eutrophicated Seawater on Rocky

Shore Ecosystems Studied in Large Littoral Mesocosms (EULIT)

MAST-III (CE) – contrat MAS3-CT97-0153, cofinanciado por el Plan Nacional de I+D: MAR1998-1591-CE

1997-2000

Dr. Carlos M. Duarte (PI español)

\_\_\_

**Prediction of the resilience and recovery of disturbed coastal communities in the tropics (PREDICT)**

INCO Programme (CE) – Contract # ERB3514PL972504, cofinanciado por el PN de I+D (CYTMAR MAR98-1839-CE)

1998 – 2002

Dr. Carlos M. Duarte (Project Coordinator)

\_\_\_

**Nutrient (N, P, SI) regulation of eutrophication in the european coastal areas.**

Centre Europeen d’Etudes sur Polifosfates (Convenio)

1998 – 2000

Dr. Carlos M. Duarte

\_\_\_

**Estimulo experimental de la produccion antartica costera (ESEPAC)**

Plan Nacional de Investigación en la Antártida (ANT97-0273.

1998-2001

Dra. Susana Agustí (I.P.)

\_\_\_

**Implementation and Networking of large-scale long-term Marine Biodiversity research in Europe (BIOMARE)**

Acción Clave “Ecosistemas Marinos Sostenibles”, CE.

2000-2001

Dr. Carlos M. Duarte

\_\_\_

**Edicion del libro** “El pulso de la investigación en ciencias marinas en España”.

Acción Especial ANT1998-1557-E, Plan Nacional de I+D, CICYT.

2000

I.P. Carlos M. Duarte

\_\_\_

**POSICOST** - Estudio de la Posidonia oceanica y su interacción con la circulación costera y los procesos litorales en la costa Valenciana.

Plan Nacional de I+D, IFD97-1654

2000-2001

I.P. Dr. Josep R. Medina.

\_\_\_

**Net DOM production by contrasting coastal Norwegian communities**.

Trondheim Marine Research Infrastructure, CE.

2000-2001

(I.P. Carlos M. Duarte).

\_\_\_

**Monitoring and Managing of European Seagrass Beds** (M&M’s) EVK3-CT-2000-00044, Sustainable Marine Ecosystems, V F.P. I+D, CE.

2001-2004

(I.P. Carlos M. Duarte).

\_\_\_

**Nutrients Cycling and the Trophic Status of Coastal Ecosystems (EUROTROPH)***”*contract EVK3-CT-2000-00040, Sustainable Marine Ecosystems, V F.P. I+D, CE. 2001-2004 (I.P. Carlos M. Duarte). Cofinanciado por el Plan Nacional de I+D (*REN2001-4977-E).*

\_\_\_

**Evaluación del efecto reserva y de las medidas de control de fondeo en la dinámica poblacional de *Posidonia oceanica* en el Parque Nacional de Cabrera. *P. oceanica* como especie indicadora de la calidad de las aguas del Parque Nacional.**

Parque Nacional del Archipiélago de Cabrera.

2000. (I.P. Carlos M. Duarte)

\_\_\_

**Bases científicas para el desarrollo sostenible de la acuacultura costera en Filipinas**

Agencia Española de Cooperación Internacional,

2000-2001

I.P. Carlos M. Duarte

\_\_\_

**Effects of nutrient release from Mediterranean fish farms on benthic vegetation in coastal ecosystems** (**MedVeg**), Keyaction: Sustainable agriculture, fisheries and forestry, including integrated development of rural areas. Quality of Life and Management of Living Resources Program, V F.P. CE. Contract number: Q5RS-2001-02456 2001-2004. . (I.P. Carlos M. Duarte). Cofinanciado por el Plan Nacional de I+D (REN2002-10001-E/MAR).

\_\_\_

**m@rble:** ELectronic conference on Marine Biodiversity in Europe

CE Concerted Action. V F.P. CE. 2001 . (I.P. Carlos M. Duarte)

\_\_\_

**Cooperación Hispano-Australiana en la modelización de la colonización de praderas submarinas de Posidonia**. Acción Especial REN2000-2123-E, Plan Nacional de I+D. 2001-2003, I.P. Carlos M. Duarte

\_\_\_

**Protección de las praderas de Posidonia en LICs de Baleares**

Comisión Europea, Programa LIFE 2000/NAT/E/7303

2001- 2005

Investigador responsable: Carlos M. Duarte

\_\_\_

**MARBENA**: Creating a long term infrastructure for Marine Biodiversity research

in the European economic area and the Newly Associated states

Comisión Europea, Programa LIFE 2000/NAT/E/7303

2002- 2004

Investigador responsable: Damiá Jaume

\_\_\_

#### Estudio de las zonas de préstamo de Banyalbufar y Cap Salines (Mallorca)

Demarcación de Costas de Baleares,

Ministerio de Medio Ambiente

2002

Investigador responsable: Carlos M. Duarte

\_\_\_

#### Estudio de las zonas de préstamo del Racó de Sa Talaya (Ibiza)

Demarcación de Costas de Baleares,

Ministerio de Medio Ambiente

2002

Investigador responsable: Carlos M. Duarte

\_\_\_

**Integrating the terrestrial and aquatic components of the global carbon budget**

2002-2004

National Center for Ecological Synthesis

IP’s: J.J. Cole, Y.T. Prairie y C.M. Duarte

\_\_\_

**COCA**: Flujo de carbono en la región Canaria: acoplamiento entre exportación costera y demanda oceánica.

REN-2000-1471-C02, Plan Nacional de I+D

2000-2003

Investigador responsable:  Dra. Susana Agustí.

Financiación:  32.500.000 pts

\_\_\_

**Luz y Nutrientes como Recursos**: Respuestas del Microplancton y génesis de la heterogeneidad espacial en el Océano Sur.

REN2002-04165-CO3-O2, Plan Nacional de I+D

2002-2005

Coordinador + IP Subproyecto 2, Carlos M. Duarte

\_\_\_

**MarBEF**, Marine Biodiversity and Ecosystem Function

Network of Excellence

Contract 505446, Framework Program 6, CE

2004-2008

IP Español + Lider del Theme 2 y Miembro del Executive Committee, Carlos M. Duarte

\_\_\_

**Regresión de praderas de Posidonia oceanica y calidad ambiental en el Parque Nacional del Archipiélago de Cabrera**: causas, magnitud, distribución y posibles estrategias de remediación

055/2002, Ministerio de Medio Ambiente

2003 - 2006 Cuantía de la subvención: 90 944 euro

Investigador responsable: Dr. Núria Marbà

\_\_\_

**Thresholds, Thresholds of Environmental Sustainability**

Integrated Project, Priority 6.3 Global Change and Ecosystems.

Contrato # 003933-2, Programa Marco 6, CE

Coordinador del Proyecto Integrado, Carlos M. Duarte

\_\_\_

**EUR-OCEANS** , European Network of Excellence of Ocean System Análisis

Network of Excellence

Contrato # 511106-2, Programa Marco 6, CE

2005-2008

IP Español + Miembro del Scientific Committee, WP2.2 & 8 leader, y miembro de la General Assembly y Executive Committee Carlos M. Duarte

\_\_\_

**RODA**: Remolinos océanicos y deposición atmosférica: efectos biológicos y biogeoquímicos en agues del Atlántico Este. CTM-2004-06842-CO3-O2. National Plan of I+D. 2004-2007. I.P. Susana Agustí. Subvencion: 267300 €.

\_\_\_

**Marine Subsidies to Unproductive Coastal Zones**.

Australian Research Council, Discovery Program, Australia

2005-2007

P.I. Diana Walker

\_\_\_

**Global trajectories of seagrasses**: Establishing a quantitative basis for seagrass conservation and restoration.

National Center for Ecological Análisis and Síntesis, NCEAS, USA

2005-2007.

IP. R.J. Orth and W.C Dennison

\_\_\_

**Conservación de Praderas Submarinas**: Causas de la regresión y efectos sobre las Funciones en el Ecosistema

Fundación BBVA

2005-2008

I.P. Carlos M. Duarte

Subvención 170,000 euros.

\_\_\_

**Estudi d'implementació de la Directiva Marc de l'Aigua a Balears:** Avaluació de la qualitat ambiental de les masses d'aigua costaneres utilitzant indicadors i índex biològics. 3.Posidonia oceanica".

Govern de les illes Balears

2005.2007

I.P. Carlos M. Duarte

Subvención 125,000 euros

\_\_\_

**Biological Oceanographic Mechanisms Driving Australia's Coastal Fisheries**

Australian Research Council Discovery Program (#DP0663670).

2006-2008

I.P. Dr AM Waite.

Subvención 310,000 $ Australianos

\_\_\_

**Metaoceans:** Elucidating the structure and functioning of marine ecosystems through synthesis and comparative analysis.

Marie Curie Early Stage Research Training, contract 019678-2.

I.P. Dr. Carlos M. Duarte

Subvención: 200,000 €

\_\_\_

**ATOS:** Atmospheric inputs of organic carbon and pollutans to the polar ocean: Rates, significance and Outlook.

Ref. POL2006-00550/CTM

Plan Nacional de I+D, Subprograma de Investigación Polar.

2006-2009

I.P. Dr. Carlos M. Duarte

Subvención (Costes de Ejecución): 580.000 €

\_\_\_

**SAMI:** Synthesis of Aquaculture and Marine Ecosystem Interactions.

Contract No. 022656

Programa Marco VI de la UE

2005-2007

I.P. Carlos M. Duarte

Subvención: 32,976 €

\_\_\_

**SESAME**: Southern European Seas: Assessing and Modelling Ecosystem changes

Programa Marco VI de la UE, Contrato 036949-2

2006-2009

I.P. (WP7) Carlos M. Duarte

Subvención: 120,000 €

\_\_\_

**SIZEMIC**: *Body -size and ecosystem dynamics: integrating pure and applied approaches from aquatic and terrestrial ecology to support an ecosystem approach*

European Science Foundation (ESF) y Ministrerio de Educación y Ciencia

2007-2009

I.P. español y miembro del Steering Committee, Carlos M. Duarte

Subvención: 18,000 €

\_\_\_

**PROGECIC-5C**: "Diseño y aplicación de sistemas de análisis para la cuantificación de elementos traza en el océano"

Plan de I+D+i del Govern Balear

I.P. Victor Cerdá

Subvención: 119.804 euros

2007-2008

\_\_\_

**Ecosystem metabolism and air-sea CO2 flux in arctic fjords**.

Funding Agency: The Commission for Scientific Research in Greenland

(<http://www.kvug.dk/commission.html>)

IP Dorte Krause-Jensen.

2006-2007

\_\_\_

**IAOOS Carbon**: Metabolismo del Océano Polar Ártico.

Plan Nacional de I+D, Referencia: CGL2007-28773-E/ANT

I.P. Carlos M. Duarte

Subvención: 25.000 euros

2007-2009.

\_\_\_

**Scientific Reviews of the Results of the Water Framework Directive Intercalibration Exercise for Coastal Waters**

D.G. Environment

I.P. Carlos M. Duarte

Subvención: 23.000 euros

2007-2008

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**Expedición de circunnavegación Malaspina 2010: Cambio Global y Exploración del Océano Global**

CONSOLIDER-2010, Ministerio de Ciencia e Innovación, Ref. CSD2008-00077

I.P. Carlos M. Duarte

Subvención: 4,300.000 €

2008-2013

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**World Marine Biodiversity Conference**

Acció Complementaria, Ministerio de Ciencia e Innovación

REFERENCIA: CTM2008-02057-E/MAR

Subvención: 12.000 €

2008

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**Campaña oceanografica humboldt-2009, transito de**

**retorno del bio hesperides primavera 2009**

Acción Complementaria, Ministerio de Ciencia e Innovación

Referencia: CTM2008-02497-E

I.P. Jose Luis Pelegrí

Sunvención: 40,000 €

2008-2009

**Marinera- Estructuración filogeográfica de especies marinas durante el cambio climático.**

CTM2008-04183-E/MAR, Programa MARINERA

Plan Nacional de I+D

I.P. Carlos M. Duarte

Subvención:

272.800 €

01 del 02 de 2009 a 31 del 01 de 2012

Universitat de les illes Balears

\_\_\_

**Arctic Tipping Points, ATP**

Framework Program 7, EU, contract number: 226248

2009 – 2011

IP: Carlos M. Duarte (general coordinator: Paul Wassman)

Subvención: 940,000 € al CSIC

\_\_\_

**Water bodies in europe: integrative systems to assess ecological status and recovery (wiser)**

Entidad financiadora: European Commission, FP7, Contract number: 226273

Duración: 1 marzo 2009 hasta 28 febrero 2012

Investigador responsable: Núria Marbà

Cuantía de la subvención: 428 000 €

\_\_\_

**Investigating the impact and dynamics of marine aliens in the context of climate change: reducing risk by developing evidence-based policies**

Entidad financiadora: AXA Foundation

Duración: 2009 hasta 2012

Investigador responsable: Núria Marbà

Cuantía de la subvención: 68000 €

\_\_\_

**Towards Understanding Marine Biological Impacts of Climate Change**

Entidad Financiadora: National Center for Ecological Analysis and Synthesis, Univ. California at Santa Barbara and National Science Foundation, EEUU

Duración: 2009-2011

Investigador responsable: Anthony Richardson and Elvira Poloczanska

\_\_\_

**Global Expansion of Jellyfish Blooms: Magnitude, Causes and Consequences**

Entidad Financiadora: National Center for Ecological Analysis and Synthesis, Univ. California at Santa Barbara and National Science Foundation, EEUU

Duración: 2009-2012

Investigador responsable: *Rob Condon, Carlos M. Duarte, William Graham*

\_\_\_

**ARCTIC TIPPING POINTS (ATP)**

CTM2009-07781-E(subprograma ANT)

Plan Nacional de I+D, Ministerio de Ciencia e Innovación

Pi: Carlos Manuel Duarte Quesada

Organismo: consejo superior de investigaciones cientificas

Centro: dpto. De investigacion del cambio global

Duración: enero 2011 - agosto 2012

Finaciación: 120,000 euros.

\_\_\_

**CLAMER, Climate Change Impacts on the Marine Environment:**

Research Results And Public Perception

FP7-ENV-2009-1-244132-CLAMER

Finación: Programa Marco 7 de la UE

Duración: 2010 - 2011

Financiación: 9,993 €

**MEDSeA, Mediterranean Sea Acidification in a Changing Climate**

FP7-ENV-2010-265103-MEDSeA

Finación: Programa Marco 7 de la UE

Duración: 2011-2014

Financiación: 197,346 €

\_\_\_

**Managing the conservation significance of coral reef ecosystems in**

**the Pilbara/ Ningaloo region Net Conservation Benefits.**

Financiación: Gorgon Joint Venture and Ministry for Environment, Western Australia

Duración: 2012-2017

Financiación: 7.2 million $ AU

IP Russ Barbock

\_\_\_

**CSIRO—Marine and Coastal Carbon Biogeochemistry Cluster**

Financiación: CSIRO

Duración: 2013-2016

Financiación: 3 million $ AU

IP Carlos Duarte y Peter Ralph

\_\_\_

**ARCTICMET:IMPACTO DEL CAMBIO CLIMATICO SOBRE EL METABOLISMO DEL ARTICO**

Financiación: Plan Nacional de I+D.

Referencia: CTM2011-15792-E (subprograma ANT)

Duración: 2013-2015

Financiacón: 120.000 euros

IP: Carlos M. Duarte

\_\_\_

**MALASPINOMICS y MALASPINA-ANALYTICS: Análisis de muestras de interés estratégico clave recogidas por la expedición Malaspina-2010**

Financiación: Plan Nacional de I+D.

Referencia: CTM2011-15461-E

Duración: 2013

Financiacón: 350.000 euros

IP: Carlos M. Duarte

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**Bridging marine productivity regimes: How Atlantic advective inflow affects productivity, carbon cycling and export in a melting Arctic Ocean (CARBON BRIDGE)**

Financiación: Norwegian Research Council

Duración: 2013-2016

Financiacón: 2 million euros

IPs Prof. Marit Reigstad (PI), Prof. Paul Wassmann (co-PI), Univ. of Tromsø (UiT)

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**Sienrgia y Antagonismo entre múltiples estreses en ecosistemas marinos mediterráneos, ESTRESX (CTM2012-32603)**

Financiación: Plan Nacional de I+D.

Duracion: 2013-2016

Financiación: 230,000 euros

IP: S. Agusti

\_\_\_

**pH and the possible buffering role of the expanding marine vegetation against ocean acidification in coastal waters of Greenland**

Financiación: Danish Research Council

Duracion: 2013-2015

Financiación: 252,900 euros

IP: Dorte Krause-Jensen

\_\_\_

**Fixing Nature: A critical account of our struggles to address problems in the coastal marine environment**

Financiación: University of Queensland

Duración: 2014

Financiación: 16,000 $ AU

IP: Catherine Lovelock y Carlos M. Duarte

\_\_\_

**Impact of Global Stressors on the Metabolic Balance of the Coastal Indian Ocean**

Financiación: Australian Research Council–ARC Discovery Projects - DP140100825

Duración: 1/1/2014-31/12/2016

Subvención: 185.000 AUD$

I.P. Susana Agustí

\_\_\_

**Browse Basin Operational and Scientific Monitoring Program (OSMP)**

Financiación: Shell Development (Australia) and Inpex Operations

Duración: 2014-2018

Financiacón: 15 millones de $ AU

IP: Jamie Oliver

\_\_\_

**Bioremediation of coastal water pollution and its carbon sequestration potential**

Prof. Jiaping Wu (PI) and Carlos M. Duarte (PI)

Duración: 2016-2017.

Budget: 600,000 AU $

Funding: MOST International S&T Collaboration and ZJU (China)

\_\_\_

**EXPLORING THE DEEP SEA CANYONS OF SOUTH-WEST AUSTRALIA**

Malcolm McCulloch, Chari Pattiaratchi, Carlos Duarte and Susana Agusti-Requena and Julie Trotter

Duración: 2014-2015

Funding: Schmidt Institute of Oceanography, EEUU (research cruise)

**KAUST Workshop on Marine Megafauna Movement.**

Carlos M. Duarte

2015

Funding: KAUST OSR, 65,000 US $

\_\_\_

**Coupled Animal and Artificial Sensing for Sustainable Ecosystems: The Red Sea as a CAASE study**

IP Carlos M. Duarte

2015-2020

Funding: KAUST OSR, 5,822,956 US $

## Ph.D. Students Supervised

1. Susana Enríquez Domínguez. “Continuo de variación en el funcionamiento de los organismos fototróficos. Un estudio comparativo” Universidad Autónoma de Madrid. 26 de Noviembre de 1993. Apto cum laude Director: Carlos M. Duarte (currently Investigadora UNAM, Méjico)
2. Margarita E. Gallegos Martínez “Dinámica de poblaciones y crecimiento de los pastos marinos caribeños Thalassia testudinum Banks ex Konig, Syringodium filiforme Kutz. y Halodule wrightii Ascherson”. Universidad Nacional Autónoma de México, 28 de Febrero de 1995. Sobresaliente. Director: Carlos M. Duarte (currently Prof. UAM, Méjico)
3. Nuria Marbá Bordalba. “Arquitectura y dinámica de crecimiento de angiospermas marinas”. Universidad de Barcelona. 28 de Abril de 1995. Apto cum laude. Director: Carlos M. Duarte (currently Cient- Titular CSIC, IMEDEA)
4. Teresa Alcoverro i Pedrola. “Ecología de la producció de la fanerógama marina Posidonia oceanica”. Universidad de Barcelona. 18 de Julio de 1995. Apto cum laude. (codirigida entre Carlos M. Duarte yel Dr. Javier Romero) (currently Cient- Titular CSIC, CEAB).
5. Just Cebrián. “"The fate of autotrophic production with special reference to herbivory:from seagrasses to some general patterns among plant communities" Universidad de Barcelona, 5 de julio de 1996. Magna cum laudem por unanimidad. Director: Carlos M. Duarte (currently asóciate professor Universidad de Alabama, USA)
6. Beatriz Vidondo Currás “Patrones en la distribución de tamaños de organismos marinos”. Universidad Politécnica de Barcelona. 18 de Diciembre de 1996. Apto cum laude. Director: Carlos M. Duarte (currently profesor at Bern University)
7. Nona S.R. Agawin. “Growth and losses of picophytoplankton¨”. Universidad Politécnica de Barcelona. 25 Enero 2002, Apto cum laude. Advisors: Susana Agustí y Carlos M. Duarte. (currently Investigadora Juan de la Cierva, CSIC; IMEDEA)
8. Anna Lucea Sureda “Elemental stoichiometry in nutrient pools in oligotrophic marine ecosystems“ Universidad Politécnica de Barcelona. 23 de Enero 2003, Sobresaliente cum laude. Director: Carlos M. Duarte (currently Head Dept. I+D Nylstar S.A., Blanes, Girona)
9. Filipe Alberto “Population genetics, clonal structure and phylogeography of the seagrass Cymodocea nodosa using microsatellite markers. “ Universidades do Algarve (Faro, Portugal). 22 de Septiembre de 2005. Supervisor: Ester Serrao y Carlos M. Duarte. (currently investigador contratado Universidade do Algarve).
10. Cristina Barrón Esquiroz, “Production and export of dissolved organic carbon in coastal benthic ecosystems “. Universidad de les illes Balears, 11 de Octubre de 2005; Sobresaliente por unanimidad. Director: Carlos M. Duarte . (currently postdoctoral fellow, Université Libre de Bruselles, Belgium).
11. María Lluc Calleja, “The metabolic significance of the surface layer of the ocean”. Universidad de les illes Balears, 23 de Abril de 2007; Sobresaliente cum laude. Director: Carlos M. Duarte. (Actualmente postdoc en Univ. California at Santa Cruz, EEUU).
12. Beatriz Martínez Daranas, “Estado de salud de los pastos marinos en áreas del Archipiélago Sabana-Camagüey, Cuba“. Universidad de la Habana, Cuba, 18 de Diciembre de 2007. Codirigida por Carlos M. Duarte y Pedro Alcolado. (Actualmente Jefe de Departamento de Biología Marina, Instituto de Oceanología, La Habana, Cuba).
13. Eva Ortega Retuerta, “Organic matter distribution and dynamics in marine ecosystems: field, experimental and remote sensing approaches”, Universidad de Granada, 3 de Octubre de 2008, Sobresaliente cum laude. Directores: Isabel Reche y Carlos M. Duarte.
14. Micaela García, “Bacterial communities associated to seagrass (Posidonia spp.) rhizosphere in organic-rich carbonate sediments”. Universidad de les illes Balears, 19 de Marzo de 2009, Sobresaliente cum laude. Directores: Carlos M. Duarte, Arantxa López-López y Ramón Roselló).
15. Humberto Marotta Ribeiro, “Dióxido de carbono em lagos tropicais: de controles locais a padroes globais“, Universidad Federal de Río de Janeiro, Brazil, 30 de Marzo de 2009, A (90 – 100 %), Directores: Carlos M. Duarte, Alex H. Prast.
16. Aurore Regaudie de Gioux, “Patterns in Ocean Metabolism: Rates, Balance and Control”. Universidad de les illes Balears, 21 October 2010, Excellent, cum laude. Director: Carlos M. Duarte
17. E. Alejandro Herrada, “A Complex Network Approach to Phylogenetic Trees: From Genes to the Tree of Life”, Universidad de les illes Balears, 4 February 2011, Sobresaliente cum laude. Directors: Emilio Hernández-García, Victor M. Eguiluz and Carlos M. Duarte.
18. Raquel Vaquer Suñer, “Global change, respiration and coastal hypoxia”. Universidad de les illes Balears (en progreso). Director: Carlos M. Duarte
19. Sergio Ruíz, “Volatile Organic Carbon Release by Marine Macrophytes”. Universidad de les illes Balears (en progreso). Director: Carlos M. Duarte
20. Sónia Massa, “ Genetic diversity of structural species, and stability of populations and ecosystems”, Universidade do Algarve, Faro, Portugal, 14 de Septiembre de 2012.
21. Tánia Aires, “Biotic interactions and the success of invasions: bacterial communities in vinasive versus native species of algae (Caulerpa sp.) and seagrass (Posidonia sp.), ”, Universidade do Algarve, Faro, Portugal, 14 de Septiembre de 2012.
22. Dana L. Bigham. “Analyses of temporal changes in trophic state variables in Florida lakes”, University of Florida, Gainesville, 23 October 2012 (co-supervisada por Daniel E. Canfield).
23. Charles Novaes de Santana. “"Analysis of effects of global changes in Arctic and Antarctic food webs: present and future scenarios”, Sobresaliente cum laude,
24. Luana Pinho Queiroz, “La influencia de las concentraciones y cualidad del Carbono Orgánico Disuelto sobre la emisión de CO2 y Carbono Organico Volatil en lagos tropicales” Universidad Federal de Río de Janeiro, Brazil, Directores: Carlos M. Duarte, Alex H. Prast, April 2013
25. Charles Novaes de Santana. “"Analysis of effects of global changes in Arctic and Antarctic food webs: present and future scenarios”, Sobresaliente cum laude, Universidad Internacional Menéndez y Pelayo, Palma, 18 de Julio de 2013 (co-supervisada por Pablo Marquet).
26. Amanda Metcalff, “Trazabilidad isotópica del carbono: implicaciones en el almacenamiento geológico de CO2”, Sobresaliente, Postgrado en Cambio Global, CSIC-Univ. Internacional Menéndez Pelayo. Directores: Carlos M. Duarte y Antonio Delgado.

**PhD Thesis In Progress**

1. Elena Díaz Almela, “Population dynamics of the Mediterranean seagrass *Posidonia oceanica* (L.) Delile“. Universidad de les illes Balears (en progreso). *Director: Carlos M. Duarte*
2. Johnna Holding “Tipping points for Arctic metabolismo”. Postgrado en Cambio Global, CSC-Univ. Internacional Menéndez Pelayo. Director: Carlos M. Duarte.
3. Lorena Basso, “*Pinna nobilis: Current status and response to Climate Change*” Postgrado en Cambio Global, CSC-Univ. Internacional Menéndez Pelayo. Co-Directors: Carlos M. Duarte and Iris E. Hendriks.
4. Alexandra Steckbauer, “Hypoxia in Mediterranean bays: prevalence, dynamic and correlation to CO2” Postgrado en Cambio Global, CSC-Univ. Internacional Menéndez Pelayo. Director: Carlos M. Duarte.
5. Eva Mayol, “Intercambios de microorganismos y carbono entre la atmósfera y el océano: papel en la dinámica de aerosoles”, Postgrado en Cambio Global, CSC-Univ. Internacional Menéndez Pelayo. Director: Carlos M. Duarte.
6. Lara Silvia García Corral, “Thermal regulation of ocean processes”, Postgrado en Cambio Global, CSC-Univ. Internacional Menéndez Pelayo. Directores: Carlos M. Duarte y López-Urrutia.
7. Amanda Metcalff, “Trazabilidad isotópica del carbono: implicaciones en el almacenamiento geológico de CO2”, Postgrado en Cambio Global, CSC-Univ. Internacional Menéndez Pelayo. Directores: Carlos M. Duarte y Antonio Delgado.
8. Elena Mesa Cano, “Isótopos estables en el océano”, Postgrado en Cambio Global, CSC-Univ. Internacional Menéndez Pelayo. Directores: Carlos M. Duarte y Antonio Delgado.
9. Laura Ramajo Gallardo, “Plasticidad en la morfología de la concha de organismos marinos a través de gradientes ambientales asociados al cambio climático” Programa de Doctorado en Cambio Global CSIC - Universidad Internacional Menéndez Pelayo (UIMP). Directores: Carlos M. Duarte
10. Sharyn Hickey, “Losses of vegetated coastal habitats in Australia”, The University of Western Australia, Directores: Kimberly van Niel, Stuart Pimm and Carlos M. Duarte.
11. Marina Sanz, “*Plankton Metabolism in the Arctic*”, Univ. Politécnica de Cataluña. Supervisors Carlos M. Duarte and Paul Wassmann.
12. Hanan Almahasheer, “*Ecosystem Services of Avicennia marina in the Red Sea*”, King Abdullah University For science and Technology, Arabia Saudi, Supervisors: Xabier Irigoien and Carlos M. Duarte.
13. Veronica Chaidez, “*Thermal Limits of Red Sea Biota*”, King Abdullah University For science and Technology, Arabia Saudi, Supervisors: Carlos M. Duarte and Susana Agustí.

**Honours Thesis supervised**

Aisling Fontanini, “*Impacts of synergistic stresses are species-specific: metabolic responses for Gullmar Fjord invertebrates to low O2 and high CO2*.” The University of Western Australia, October 2013.

## M.Sc. Students supervised

1. Alexandra Cunha “Crescimento e produtividade de Cymodocea nodosa na Ría Formosa, Algarve”. Universidad do Algarve, Faro, Portugal. 29 de Enero de 1995. Sobresaliente.
2. Trine Lützen, “*Cymodocea nodosa (Ucria) Aschers. Vegetativ versus seksuel reproduktion*. Roskilde University, Dinamarca. Junio de 1995.
3. Anne Lise Middelboe, “*Cymodocea nodosa (Ucria) Aschers. Vegetativ versus seksuel reproduktion*. Roskilde University, Dinamarca. Junio de 1995.
4. Kathrine Stefansen. “*Cymodocea nodosa (Ucria) Aschers. Vegetativ versus seksuel reproduktion*. Roskilde University, Dinamarca. Junio de 1995.
5. Hoang Thi Ha “*Population dynamics and sediment effects on growth and survival of Kandelia candel in Halong Bay (North Vietnam)”* Mangrove Ecosystem Research Division, National Pedagogic University of Vietnam, Hanoi. 2001.
6. Lídice Clero Alonso, *Demografía y Crecimiento de las Praderas Submarinas (Thalassia testudinum, Naks ex König) en Cayo Coco, Cieo de Ávila, Cuba*. Tesis de Maestría, Universidad Internacional de Andalucía, Director, Carlos M. Duarte. Noviembre 2003.
7. Mateo Aguado, El Coste Energético del Bienestar, Programa de Postgrado en Cambio Global, Univesidad Internacional Menéndez Pelayo-CSIC, Noviembre 2009.
8. Johnna Holding, Footprints of climate change in the Antarctic marine ecosystem, Programa de Postgrado en Cambio Global, Universidad Internacional Menéndez Pelayo-CSIC, Sobresaliente, 19 de Octubre de 2010.
9. María Dolores Norte, From Kyoto Protocol to Copenhagen Summit: Press Coverage of Global Change at Spanish and International newspapers, Programa de Postgrado en Cambio Global, Universidad Internacional Menéndez Pelayo-CSIC, Sobresaliente, 19 de Octubre de 2010.
10. Amanda Metcalff, Programa de Postgrado en Cambio Global, Universidad Internacional Menéndez Pelayo-CSIC, Sobresaliente, 18 de Octubre de 2010.
11. Elena Mesa Cano, Primary production in the Arctic during summer 2012: determination by the 18O method, Programa de Postgrado en Cambio Global, *Universidad Internacional Menéndez Pelayo*-CSIC, *Notable, 12 de Septiembre de* 2012.
12. Lara S. García-Corral, Effect of ultraviolet radiation on Arctic plankton net community production, Programa de Postgrado en Cambio Global, *Universidad Internacional Menéndez Pelayo*-CSIC, *Notable, 12 de Septiembre de* 2012.
13. Marina Sanz, Is the global rise of jellyfish blooms a case of Broken Telephone? An analysis of citation networks on trends in jellyfish, Programa de Postgrado en Cambio Global, *Universidad Internacional Menéndez Pelayo*-CSIC, *Notable, 12 de Septiembre de* 2012.
14. Paulo Casal, Macroalgae aquaculture global externalities, Programa de Postgrado en Cambio Global, *Universidad Internacional Menéndez Pelayo*-CSIC, *Notable, 13 de Septiembre de* 2012.
15. Elia Pérez León, *Drivers of mollusc performance: Food supply vs. carbonate saturation state***,** Programa de Postgrado en Cambio Global, *Universidad Internacional Menéndez Pelayo*-CSIC, *Notable, 24 de Septiembre de* 2014.
16. Radhiya, Loss of carbón stocks in seagrass meadows due to mooring activities at Rottnest Island, Wester Australia. Master in Marine Science, The University of Western Australia, 4 November 2014.

## Postdoctoral Fellows

Dr. Søren L. Nielsen (Denmark) - 1993-1994 (currently Prof. Univ. Roskilde)

Dr. Timothy C. Granata (USA) - 1995-1999 (currently Prof. Ohio State Univ.)

Dr. Jorge Terrados (Spain) - 1995-2000 (currently tenure scientist, CSIC)

Dra. Esperança Gacía (Spain) - 1996-1999 (currently tenure scientist, CSIC)

Dra. Nuria Marbá Bordalba (Spain) - 1998 – 2002 (currently tenure scientist, CSIC)

Dra. Nuria Navarro (Spain) – 2001 – 2003 (currently Prof. Univ. Rey Juan Carlos)

Dr. Sophie Arnaud-Haond (France) – 2002 – 2006 (currently tenure scientist, IFREMER, France)

Dra. Emma Kritberg (Sweden) – 2006 – 2007 (currently associate profesor at Lund University, Sweden)

Dr. Antonio Tovar Sánchez (Spain) – 2004 –2007 (currently tenure scientist, CSIC, Spain).

Dr. Alejandro Rozenfeld (Argentina) – 2005 -2010 (currently postdoc at Catholic Univ. of Chile)

Dra. Marta Álvarez (Spain) – 2007 – 2010 (currently tenure scientist, IEO, Spain)

Dr. Burkhard Horstkotte (Alemania) – 2009 - 2012

Dr. Stefan Gelcich (Reino Unido) - 2010 - 2012

Dr. Ylva Olsen (Sweden) - 2010 – 2012 (CSIC, Spain), 2013 – (UWA, Australia)

Dr. Tommy Moore (EEUU) - 2011 - 2013

Dra. Iris Hendriks (Netherlands) – 2004 – 2015

Dr. Jesús M. Arrieta (Spain) – 2005 –

Dr. Oscar Serrano (España) – 2012 -

## Scientist hosted on sabbatical leave

Dr. Jacob Kalff (McGill University, Canadá) - 1993/1994

Dr. Yves Prairie (Université de Québec a Montréal, Canadá) - 1994/1995

Dr. William Judson Kenworthy (NOAA, USA).1995

Dr. David F. Bird (Université de Québec a Montréal, Canadá) - 1997/1998

Dra. Hilary Kennedy (University of Wales, UK) – 2000

Dr. Paul del Giorgio (Horn Point Lab, Univ. of Maryland, USA) – 2000

Dr. Marianne Homer (Odense University, Denmark) – 2000-2001

Dr. Gary Kendrick (Univ. Western Australia, Australia) – 2001.

Dr. Yves Prairie (Université de Québec a Montréal, Canadá) - 2001/2002

Dr. Jim Fourqurean (Florida International University, USA) – 2001/2002

Dr. Yngvar Olsen (Norwegian University of Science and Technology, Norway) – 2003/2004.

Dr. John Downing (Iowa State University, USA) – 2007/2008

Dra. Dolores Planas (Université du Québec a Montrèal, Canada) – 2008-2009

Dr. Catherine Lovelock (Univ. Queensland, Australia) – 2013

Dr. John Pandolfi (Univ. Queensland, Australia) – 2013

Dra. Paulina Marinetto (Univ. La Plata, Argentina) – 2013

**Editorial work**

**Editor in chief of**

Estuaries (2001 -2010) – Estuaries and Coasts from 2006

(Estuarine Research Federation USA)

Frontiers in Marine Science (2014).

**Associate Editor of**

Limnology and Oceanography (1997- 2002)

Ecosystems (2002 - 2008).

Biogeosciences (2004 - 2008).

Marine Biological Research (2006 - ).

PLoS One (2007 - 2012)

Global Ecology and Biogeography (2011 - )

**Member of the Editorial Board of**

Journal of Experimental Marine Biology and Ecology (1994 - ) (Elsevier Science)

Aquatic Botany (1998 - 2003) (Elsevier Science)

Journal of Sea Research (1999 - ) (Elsevier Science)

Aquatic Living Resources (2001 - ) (Elsevier Science)

Journal of Marine Systems (2001 - ) (Elsevier Science)

Ophelia (1999 - 2004)

Marine Biology Research (2005 - )

Scientia Marina

Hidrobiología (México)

Pukhet Marine Station (Thailand)

**Reviewer for:**

American Naturalist

Aquatic Botany

Biogeochemistry

Biogeosciences

Canadian Journal of Botany

Canadian Journal of Fisheries and Aquatic Sciences

Ciencia Marina

Deep-Sea Research

Ecology

Ecological Applications

Ecological Modelling

Ecology Letters

Ecosystems

European Journal of Phycology

Estuaries

Estuarine Coastal and Shelf Science

Evolutionary Ecology

Geophysical Research Letters

Global Biogoechemical Cycles

Global Biology Change

Hydrobiologia

Journal of Experimental Marine Biology and Ecology

Journal of Aquatic Plant Management

Journal of Ecology

Journal of Phycology

Journal of Plankton Research

Journal of Sea Research

Limnology and Oceanography

Marine Biology

Marine Ecology

Marine Ecology Progress Series

Marine and Freshwater Research

Marine Life

Nature

Oecologia

Ophelia

Phycologia

Science

Scientia Marina

* Project leader in 45 projects (29 international, 16 national).
* Invited or plenary speaker in 28 scientific conferences.

**Scientific management**

**International:**

* Steering Committee of MARS (Marine Research Station) network (IUBU, 1998 - ).
* Steering Group “Science for Peace” programme. NATO (1997 -1998).
* Steering Committee del North Atlantic Planning Group del Joint Ocean Global Flux Study (JGOFS - IGBP). (1995 - 1998).
* Member of the “Feasibility Study Group on Marine Biodiversity”, European Science Fundation (EMaPS). October 1997 -1998 .
* Member of the International Coastal GOOS Pannel, Intergovernmental Oceanographic Commission, UNESCO (1997 - 1999).
* Member of the Scientific Committee of the Netherlands Institute of Ecology (Royal Netherlands Academy of Arts and Sciences). (1997 - 2003)
* Member-at-Large of the American Society of Limnology and Oceanography (2000 - 2003 ).
* Member of the Users Selection Panel del Trondheim Marine Research Infrastructure, Noruega (1999 -2003 ).
* Member of the “Comité Aviseur International” of the Groupe de Recherche Interuniversitaire sur Limnologie, Québec, Canadá. (2002- )
* ExOficio member of the Board of Directors of the Estuarine Research Federation (2002- )
* Member of the Executive Committee of the Network of Excellence “Marine Biodiversity and Ecosystem Function” (MARBEF), 6 FP CE (2004-).
* Expert Reviewer of the Special Report on Carbon Dioxide Capture and Storage, IPCC Working Group III, Intergubernamental Panel on Climate Change. 2004.
* Co-chair of the 2005 ASLO Summer Meeting. Santiago de Compostela, Spain, June 2005
* President Elect, American Society of Limnology and Oceanography, ASLO, July 2006 –
* Member of the Advisory Committee del Istituto Nazionale di Oceanografia e Geofisica Sperimentale, Trieste (2005 - )
* Member of the Scientific Advisory Comitee del Plymouth Marine laboratory, Plymouth, UK (2007 - ).
* President, American Society of Limnology and Oceanography, ASLO, July 2008 –
* President of the Jury of the 2007 BBVA FOUNDATION AWARD FOR SCIENTIFIC RESEARCH IN ECOLOGY AND CONSERVATION BIOLOGY
* Reviewer of the of the Results of the Water Framework Directive Intercalibration Exercise for Coastal Waters, D.G. Research, Comisión Europea (2007-2008)
* Member of the Scientific Council of the Stazione Zoologica, Napoles, Italia (2008 - ).
* Advisor Interntaional Awards Balzán Foundation, Switerland (2008).
* Chair Pannel “Populations, Ecosystems and Evolution” European Research Council (2008 - 2009).
* Member of the “High Level Group on the Governance of the European Research Area” (2008 -2009).
* Member of the Scientific Council of the European Research Council (2009-2013).
* Member of the Scientific Advisory Board del Finnish Environment Institute SYKE (2010 - )
* Member of the Scientific Advisory Board of the Tara Oceans Expedition (2011 - ).
* Member of the Advisory Board del Institute of Advanced Studies, University of Western Australia, Australia (2011 - )
* Member of Australia's Oceans Policy Science Advisory Group (OPSAG) (2012 - )
* Member of the Expert Working Group on Marine Science Communication de Australia  (2012-)

**National:**

* National delegate to the JGOFS Programme (IGBP). (1994 -2001 ).
* Steering Group of IGBP-Spain (1994 - 2004).
* National Committee on Climate Research (1994 -).
* Commission on Natural Resources, CSIC. (1994-1996)
* National Delegate to the Marine Science and Technology (MAST) of the CE. (1997 -2001).
* President of Spanish IGBP Committee (2001 - 2004).
* Member of the Scientific Committee of the Spanish Institute of Oceanograph (2001 - 2004).
* Consultants for Estrategia Española de Desarrollo Sostenible, Ministerio de Medio Ambiente (2001-2002).
* Member of the Jury for the Alejandro Malaspina Prize, Ministry of Science and Technology (2001).
* Member of the Assessment Committee for the Centro de Ciencias Medioambientales (CCMA), CSIC (2003)
* Member of the Evaluation Committee of EURYI Program (2004).
* Member of the Scientitic Advisory Board, CSIC (2004 - ).
* Member of Spanish Man and Biosphere Program (2006 - ).
* Member of the Jury of the Andalusian Research Awards “Third Millenium” 2007.
* Member of the Advisory Group on Climate Change of the Andalusian (2007 - ).
* Member of the Evaluation Pannel ICREA – Senior, Catalonia (2007).
* Scientific Director, Laboratorio Internacional de Cambio Global, LINCG, CSIC – Pontifícea Univ. Católica de Chile (2008 - ).
* Coordinator of the Postgraduate Programme (Bolonia programme) on “Global Change”, CSIC-UIMP (2008 - ).
* Coordinator of the Evaluation Panel for the Atlantic Center of Marine Sciences, CAIM (2008).
* Co-Cordinator of the working Group to formulate the Spanish Institute of Climate Change Research (I2C2). 2008 –
* Member of the Jury Frontiers of Knowledge Award 2008 on Climate Change. Fundación BBVA, Madrid. 2009 and 2010.
* Member of the governing Board of the de la Universidad Autónoma de Madrid (2009 - ).
* Member of the Scientific Advisory Board del Environmental Hydraulics Institute de la Universidad de Cantabria (2009 - )
* Member of the Board of WWF-España (2009 - ).
* Member of the International advisory board to the Campus do Mar, Vigo, Spain
* Secretary of the Jury of the Frontiers of Science 2009 FBBVA on Climate Change mode. Fundación BBVA, Madrid.
* President of the Jury of Biological Conservation Action 2009, Fundación BBVA, Madrid.
* Jury member of the National Research Award "Alejandro Malaspina" in Science and Technology of Natural Resources 2011.

##### Awards

* **“G.Evelyn Hutchinson Award 2001”** American Society of Limnology and Oceanography (ASLO).
* “**Baleares del Mundo 2006**” in Science, Government of the Balearic Islands, Spain.
* “**Diario de Mallorca**” in Science, Diario de Mallorca, Spain.
* **2007 National Award “Alejandro Malaspina” in Science and Technology of Natural Resources**, Spanish Ministry of Education and Science, Spain.
* **Premio Augusto González Linares 2008,** Universidad de Cantabria and Consejería de Medio Ambiente del Gobierno de Cantabria.
* **Award on “Popular Science Books” for the book “Global Change: impacto of human activity in the Earth System”.**  2008, Science Museum, Valladolid
* **“Rey Jaime I” Environmental Protection Research Award, 2009**. Generalitat Valenciana and Fundación Valenciana de Estudios Avanzados (FVEA).
* **Silver Cross** to the Merit, Guardia Civil, Spain, 2010.
* **Honorary Doctorate, Université de Québec a Montréal,** Canadá, for “the breadth and impact of his research on the understanding and conservation of aquatic ecosystems”, June 13 2010.
* **Honorary Doctorate, Utrecht University**, Holanda, for “his contribution to Sustainability and Earth System Science”, March 25, 2011. (video of the eremony at: <http://131.211.194.110/site1/SilverlightPlayer/Default.aspx?peid=125c1e5e9ad64b0cb137c69bee43c906&playfrom=3979235&autostart=True&popout=True>).
* “**Prix d’Excellence**”, ICES, International Council for the Exploration of the Sea, September 19, 2011.
* Award “**Viaje del Año**” to the Malaspina Expeditions 2010Sociedad Geográfica Española, 28 March 2012.
* **Premio Especial del Jurado, II Certamen de Comunicación Científica FECYT**, Fundación Española para la Ciencia y la Tecnología.

## Honours and Distinctions

* **“Ian Morris Scholar in Residence**”, Center for Environmental and Estuarine Studies, University of Maryland. USA (Novembre 1997)
* “**Swisher Visiting Scholar**” Department of Fisheries and Aquatic Sciences, University of Florida, Gainesille, USA (March 2003)
* **“GRIL Scholar in Residence**”, Group Interuniversitaire de Recherche en Limnologie, Québec, ((July-December 2004)
* **Member of the Academia Europaea**, ORGANISMIC & EVOLUTIONARY BIOLOGY Section (2005 - ).
* ISI **Highly cited Scientist**, 2005 (www.highlycited.com).
* **Elected President of the American Society of Limnology and Oceanography** (ASLO), June 2006. Served as president from 2007 to 2010. Past President (2010-2012).
* “**Lindeman Lecturer 2007**”, Ecology, Evolution and Behaviour Department, Univ. of Minnesota, EEUU, 19-20 April, 2007
* **Member of the Scientific Council of the European Research Council**, appointed for this position for four years by the European Commission (28 April, 2009).
* **Member of the Science Council of the Valencian Government**, 2009-
* **Condecorated with the Silver Cross to Merit**, Guadia Civil, Spain, 2009.
* **Honorari Doctorate**, Doctor Honoris Causa Université de Québec a Montréal, Canadá, 13 June 2010.
* **Honorari Doctorate**, Doctor Honoris Causa, Utrecht Univrersity, The Netherlands,
* 25 March 2011. (see: <http://131.211.194.110/site1/SilverlightPlayer/Default.aspx?peid=125c1e5e9ad64b0cb137c69bee43c906&playfrom=3979235&autostart=True&popout=True>)
* “**Prix d’Excellence**”, ICES, International Council for the Exploration of the Sea, 19 September 2011.
* Award "**Trip of the Year /** “**Viaje del Año**” " at the Malaspina Expedition 2010. Spanish Geographical Society, March 28, 2012.
* **More Lecturer 2012**, University of Virginia, April 2012.
* **Scott Nixon Lecturer, 2013**, University of Rhode Island
* **Distinguished Lecturer, 2014**, University of Florida
* **Special Jury Prize, Scientific Communication II Contest FECYT**, Spanish Foundation for Science and Technology, 2013
* Named **Highly Cited Scientist** by Thompson Reuters, 2014 (highlycited.com).
* **Wiese Distinguished Scientis 2015, University of South Alabama**
* **Distinguished Speaker 2015, Department of Thematic Studies, Linköpings University, Sweden**
* Identified, through bibliometric analysis, as the **13th most prolific scientists on the world in the field of climate change research**: Husain, S., and M. Mushtaq. 2015. Research Assessment of Climate Change Data: A Scientometric Construct. Qualitative and Quantitative Methods in Libraries (QQML) Special Issue Bibliometrics and Scientometrics: 183- 194, 2015