

Dr. ROBERTA GUERRA

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Alma Mater Studiorum Università di Bologna
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EMPLOYMENT HISTORY

Dec. 2010 – present: Assistant Professor (tenured), Department of Physics and Astronomy, University of Bologna, Italy

Nov. 2006 – Nov.2009: Assistant Professor (tenure-track), Department of Physics and Astronomy, University of Bologna, Italy

Oct. 2001 – Sept. 2006: Research fellow, Department of Physics and Astronomy /Interdepartmental Centre for Environmental Research, University of Bologna, Italy

Apr. 2000 – Sept. 2001: Research Fellow, Department of Physics and Astronomy, Univ. Bologna

Mar. 1999 – Dec. 1999: Research Assistant, Research Assistant, Department of Physics and Astronomy, University of Bologna, Italy

Mar. 1998 – Febr. 1999: Environmental Consultant, Rosetti Marino Spa offshore company, Ravenna, Italy

EDUCATION

2003: Ph.D. Marine Environmental Science, University of Bologna, Ravenna, Italy

1996: Postgraduate Diploma in Environment, Safety and Quality Management Systems

1995: MSc equivalent (5-year) Marine Environmental Science, University of Bologna, Ravenna, Italy

VISITING ACADEMIC POSITIONS

Mar. 2024: Visiting Professor, ¹⁴C Chrono Centre, Queen's University of Belfast, UK.

Sep. 2019: Visiting scientist, Josef Stefan Institute, Ljubljana, Slovenia.

2012-2019: Guest lecturer, Faculty of Marine and Environmental Sciences, University of Cadiz, Spain

Mar. - Apr. 2019: Visiting scientist, Faculty of Marine and Environmental Sciences, Universidad de Cádiz, Spain.

Apr. 2018: Visiting scientist, Instituto Universitario de Investigación Marina (INMAR), Universidad de Cádiz, Spain.

Jun.- Jul 2015: Visiting scientist, Radiocarbon Laboratory, Centro Nacional de Aceleradores (CAN), CSIC, Seville, Spain,

Sept.–Oct. 2014: Visiting scientist, Centro Andaluz de Ciencia y Tecnología Marinas (CACYTMAR), Universidad de Cádiz, Spain.

Sept. 2012: Visiting Professor, Dept. Biophysics, Universidade Federal Rio de Janeiro (UFRJ), Brazil.

Dec. 2012: Visiting Professor, Dioxin Research Center, Department of Environmental Atmospheric Science, Pukyong National University, South Korea

Mar. 2002 – Jul.2002: Young visiting researcher, Department of Physical Chemistry, Faculty of Marine and Environmental Sciences, University of Cadiz, Spain.

Jun.-Jul 1999: Young visiting researcher, Budapest University of Technology, Hungary.

Undergraduate Students

Mr. Bruno Tommasello, UNIBO, BIGEA Dept., Advisor B.Sc., 2008

Graduate Students

Ms. Amanda Camara, Univ. Sao Paolo/UNIBO, sandwich PhD, UNIBO advisor PhD expected 2024

Ms. Sara Giansicuracusa, Univ. Venice, external co-advisor PhD expected 2024

Dr. Marilia Lopez, UNIBO/UCA Spain, Advisor PhD, 2017

Dr. Tatiane Combi, UNIBO/UCA Spain, Advisor PhD, 2016

Dr. Khurshid Alam Bhuiyan, UCA, Spain, Committee President PhD, 2021

Dr. Hsiao-Chun Tseng, UCA, Spain, Committee Member PhD, 2017

Dr. Angel Polanco, UCA, Spain, Committee Member PhD, 2016

Dr. Sonia Cristina, UCA, Spain, Committee Member PhD, 2016

Dr. Priscila Goela, UCA, Spain, Committee Member PhD, 2016

Dr. Dmitry Sharapov, UCA, Spain, Committee Member PhD, 2015

Dr. Cornelio Were Okello, UCA, Spain, Committee Member PhD, 2015

Dr. Diana Fernandez De La Reguera, UCA, Spain, Committee Member PhD, 2015

Dr. Rankiri Jayasinghe, UCA, Spain, Committee Member PhD, 2015

Dr. Sirak Robele Gari, UCA, Spain, Committee Member PhD, 2015

Dr. María Dolores Basallote Sánchez, UCA, Spain, Committee Member PhD, 2014

Dr. Alla Khosrovyan, UCA, Spain, Committee Member PhD, 2014

Dr. Víctor Almagro Pastor, UCA, Spain, Committee Member PhD, 2014

Dr. Helena Cavalcante Gurgel PhD, 2014

Dr. Claudio Silva Gallinato, UCA, Spain, Committee Member PhD, 2013

Dr. Eleonora Anfuso, UCA, Spain, Committee Member PhD, 2011

Ms. Cecilia Bellezza, UNIBO/Univ. Aut. Barcelona, Spain, Advisor M.Sc, expected 2024

Ms. Agnese Piazza, UNIBO, BIGEA Dept., Advisor M.Sc., 2023

Mr. Alberto Francesconi, UNIBO, BIGEA Dept., Advisor M.Sc, 2022

Mr. Luca Bigliardi, UNIBO, BIGEA Dept., Advisor M.Sc, 2021

Ms. Sofia Stella, UNIBO, BIGEA Dept., Advisor M.Sc, 2020

Ms. Sara Giansiracusa, UNIBO/UCA Spain, Advisor M.Sc Honors, 2019

Ms. Chiara Ciardiello, UNIBO, BIGEA Dept., Advisor M.Sc, 2018

Mr. Marco Tamburini, UNIBO, BIGEA Dept., Co-Advisor M.Sc Honors, 2018

Mr. Riccardo Ecardi, UNIBO, BIGEA Dept., Advisor M.Sc, 2018

Ms. Giulia Leardini, UNIBO, BIGEA Dept., Advisor M.Sc.Honors 2018

Ms. Silvia Montanari, UNIBO/UCA Spain, Advisor M.Sc, 2017

Ms. Serena Ghirlandi, UNIBO/UCA Spain, Advisor M.Sc.Honors, 2017

Mr. Federico Tonini, UNIBO/UCA Spain, Advisor MSc. 2017

Ms. Maria Giuseppina Zuzolo, UNIBO/UCA Spain, Advisor MSc. 2016

Ms. Bianca Maria Torre, UNIBO/UCA Spain, Co-Advisor MSc.Honors, 2014

Mr. Juan Pablo Hernandez Pozo, UNIBO, BIGEA Dept., Advisor MSc., 2014

Mr. Sivestre Marcato, UNIBO, BIGEA Dept., Advisor MSc., 2011

Dr. Simona Bonaiuti, UNIBO, BIGEA Dept., Advisor MSc., Honors 2011

Ms. Laura Borgognoni, UNIBO, BIGEA Dept., Advisor M.Sc. Honors 2011

Ms. Lionaki Sofia, UNIBO, BIGEA Dept., Advisor MSc., 2010

Mr. Michele Cioffi, UNIBO, BIGEA Dept., Advisor MSc., 2010

Dr. Elena Lo Giudice Cappelli, UNIBO, BIGEA Dept., Advisor MSc., 2009

Postdoctoral Fellows Supervised

Dr. Veronica Santinelli, UNIBO Postdoctoral Fellow (now ICM Int.Mar., Italy) 2020-2023

Dr. Malathi Jeyapandian, UNIBO Postdoc (co-advisor) 2007-2008

Guest Students

Dr. Esther Bonastre, BSc student, Univ. Valencia, Spain 2019-2020

Dr. Esther Bautista, PhD student, UCA, Spain 2017

Dr. Helena Cavalcante Gurgel, PhD student, UCA, Spain 2014

Dr. Eleonora Anfuso, PhD student, UCA, Spain	2010
Ms. Beatriz Vieira, BSc student, Universidade Federal do Ceará, Brazil	2014
Mr. Bruno Paganeli, BSc student, Universidade Federal de São Carlos, Brazil	2014
Dr. Eva Fetter, PhD student, Tech. Univ. Budapest, Hungary	2009
Ms. Zsuzsa Pac, MSc student, Tech. Univ. Budapest, Hungary	2007,
Dr. Eva Fetter, PhD student, Tech. Univ. Budapest, Hungary	2007
Dr. Pilar Lopez Hernandez, MSc student, UCA, Spain	2005

Guest professors

Dr. Robert Stojanov, Univ. Brno, Czeck Rep.	2018, 2019
Dr. Charles Galdies, Univ. Malta	2018
Dr. Monika Molnar, Tech. Univ. Budapest, Hungary	2014
Dr. Alice Newton, Univ. Algarve, Portugal	2012
Dr. Enrique Garcia Luque, UCA, Spain	2009-2019

Teaching at Univ. Bologna

Assistant Professor, <i>Isotopes as tracers of the sea</i>	2022 – present
Assistant Professor, <i>Environmental Impact Assessment and Control</i>	2010 –present
Assistant Professor, <i>Anthropic alterations</i> co-taught with Marco Abbiati	2010 – 2011
Assistant Professor, <i>Marine Habitats</i> co-taught with Marco Abbiati	2009 – 2010
Assistant Professor, <i>Marine Environmental Impact Assessment</i>	2006 – 2008

Teaching at Univ. Cadiz, Spain

Guest Lecturer, <i>Weight of evidence assessment of chemical contamination</i> , Erasmus Mundus MSc WACOMA	2018 – 2021
Guest Lecturer, <i>Radioactive tracers in oceanography</i> , Erasmus Mundus PhD MACOMA/ MSc WACOMA	2012 – 2017
Guest Lecturer, <i>Impact of metals on marine ecosystems</i> , Erasmus Mundus PhD MACOMA/ MSc WACOMA	2012 – 2017

Chair, invited lecturer

Invited speaker “AdriaClim: Climate change information, monitoring and management tools for adaptation strategies in Adriatic coastal areas”, SciNMeet, 12-13 July 2022, Rome, Italy.

Chair of the Panel “Connecting Ocean Acidification Research with the UN Decade of Ocean Science”, Final Virtual Conference Ocean Governance: Action Insights and Foreshadowing Challenges”, 19-20 November 2020, Bremen.

Guest lecturer “Persistent Organic Pollutants (POPs) trends in the Western Adriatic Sea under a changing climate”. Jožef Stefan Institute, 11 September 2019, Lubjana, Slovenia.

Local organizer “5th Workshop Ocean, climate change and acidification” Working Group meeting - 4th International Symposium of Ocean Governance for Sustainability, 25-26 November 2019, National Institute of Marine Biology; Piran, Slovenia.

Invited short-talk “A 3-year time series of sinking particles and metal fluxes in Southern Adriatic (Mediterranean Sea)”, European Observing Systems EOOS Conference - CONNECTING COMMUNITIES FOR END-TO-END SOLUTIONS, 22-23 November 2018, Brussels.

Local organizer “3rd Workshop Ocean, climate change and acidification” Working Group meeting, 3rd International Symposium of Ocean Governance for Sustainability, 11-12 June 2018, Aveiro, Portugal.

Local organizer “2nd Workshop Ocean, climate change and acidification” Working Group meeting, 27 February 2018, OGS Trieste.

Invited speaker “Changes in metal partitioning during anaerobic biodegradation of polychlorinated biphenyls in co-contaminated sediments”. Reclaim Expo ECOMONDO, 8 November 2013, Rimini, Italy.

Guest lecturer “Occurrence, sources and bioaccumulation of mercury in a coastal lagoon”, 13-22

December 2012, Pukyong National University, Busan, Korea

Guest lecturer “Ecosystem Health in Coastal Areas: Pollution and Degradation”, Conference of the month series, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal de Rio de Janeiro (UFRJ), 15-25 September 2012, Rio de Janeiro, Brazil.

Invited speaker “Accumulation rates and organic carbon sources in shelf sediments from the Gulf of Cádiz (SW Spain)”. III Simposio Internacional de Ciencias del Mar - Seminario Ibérico de Química Marina (XVISEMQUIMAR), 24-26 January 2012, Cádiz, Spain.

Invited short-talk “Sediment accumulation rates in the continental shelf of Cádiz (SW Iberian Peninsula)”, ESF-FWF Conference in Partnership with LFUI Submarine Paleoseismology: The Offshore Search of Large Holocene Earthquakes, 11-16 September 2010, Universitätszentrum Obergurgl, Austria.

Invited speaker “Distribution of radon specific exhalation rate from Italian ceramic tiles”, Fifth international symposium on naturally occurring radioactive material - Topical session II Zircon and Zirconia, 19–22 March 2007, Seville, Spain.

Invited speaker “Tracking history of trace metals inputs in a coastal lagoon system by ^{210}Pb and ^{137}Cs geochronology”, 2nd ENCORA (European Network for Coastal Research) Conference – Pollution prevention, detection and mitigation Workshop, 5-7 December 2007, Paris, France.

Main Research Grants and Projects

Call for Expeditions for research activities at the Italian Arctic Base Dirigibile Italia, National Research Council (CNR), ‘MULTi-proxy evidence of recent cLimATe and glaciEr variability in an Arctic fjord: Kongsfjorden, SvAlbard, MULTILATERAL’, PI: Roberta Guerra, 2024-2026.

101059988-HORIZON-CL6-2021-BIODIV-01-12 ‘MPA Europe EU ‘Marine Protected Areas Europe, MAPA’ - WP4 ‘Observed Blue Carbon Stores’. PI: Dorte Krause-Jensen Aarhus Univ., Denmark, Roberta Guerra: Data provider.

EU4OceanObs Action ‘Europe’s contribution to global ocean observation’, PI: Pierre-Yves Le Traon, Mercator Ocean International, Roberta Guerra: Data provider.

LIFE21-IPC-IT-LIFE-CLIMAX-PO/101069928 “CLIMate Adaptation for the PO river basin district”, UNIBO PI: Silvana Di Sabatino, Co-investigator: Roberta Guerra. EU LIFE Programme, 2023-2032. 17,890,937 €; UNIBO share: 821,031.00 €.

ID 10252001 “Climate change information, monitoring and management tools for adaptation strategies in Adriatic coastal areas, AdriaClim”, PI: Nadia Pinardi, Roberta Guerra: co-investigator, activity leader ‘Design and implementation of the observing system’. EU Italy-Croatia Interreg Programme. 2020-2023. 8.823.415 €; UNIBO share 629.895 €.

CA15217-STSM 44012 “Benthic Fluxes of ALkaLinity in the Gulf of Cádiz (BEFALL)”, PI: Roberta Guerra. COST Action CA 15217 OceanGov, COST European Cooperation in Science and Technology, Brussels. 2019. Short Time Scientific Mission (STSM), Travelling Grant: 2,500 €

CA15217-STSM 40669 “Contemporary Acidification Trends in the coastal NorThEaSTern Atlantic (ATlaNTES)”, PI. Roberta Guerra. COST Action CA 15217 OceanGov, COST European Cooperation in Science and Technology, Brussels, 2018. Short Time Scientific Mission (STSM), Travelling Grant: 1,710 €

CTM2014-59244-C3-1-R “Carbon cycling and fluxes of greenhouse gases in the Gulf of Cádiz (CARINCA)”, PI: Teodora Ortega Diaz, UCA; co-Investigator: Roberta Guerra. Ministerio de Economía y Competitividad, Gobierno de España, 2015-2018. UCA share: 157,300 €

CA 15217 EU COST Action "Ocean Governance for Sustainability: challenges, options and the role of science" (OceanGov.), Chair: Prof. Anna-Katharina Hornidge, Leibniz Center For

Tropical Marine Ecology ZMT, Roberta Guerra: WG leader 'Ocean, Climate Change and Acidification', Management Committee representative nominated by the Italian Ministry of Research and Education. COST European Cooperation in Science and Technology, Brussels, 2016-2020. Leibniz Center For Tropical Marine Ecology ZMT, Bremen, Germany: ~130,000 € per year.

ESF 5103 "Dating and Timing of fluxes into and out of the Marine Carbon Reservoir of the Mediterranean Sea (TIMECARD)", PI: Roberta Guerra. Winner (European competition), European Science Foundation (ESF) - EARTH-TIME Research Networking. 2015. Travel award: 2,100 €

ESF 6688 "Ocean carbonate chemistry dynamics in the Gulf of Cádiz", PI: Roberta Guerra. Winner (European competition), European Science Foundation (ESF) - Cold-Water Carbonate Mounds in Shallow and Deep Time – The European Research Network (COCARDE), 2014. Travel award: 1,450 €

ID BEX 1133/13-6 "Patterns of natural and human-made interacting processes on source, transport and fate of metal contaminants in the deep marine ecosystem of the Adriatic Sea basin", PI: Roberta Guerra. Programme Science without Borders (CsF) Brazil Doutorado no Exterior, Coordenação de aperfeiçoamento de Pessoal de Nível Superior, Ministério da Educação CAPES, Brazil, 2014-2017. ~60,000 €, 1 PhD position funded.

237092/2012-3 "Contamination trends of legacy and emerging compounds in sediments from the Adriatic Sea", PI: Roberta Guerra. Programme Science without Borders (CsF) Brazil Doutorado no Exterior - GDE (CsF), Conselho Nacional de Desenvolvimento Científico e Tecnológico, CNPq, Brazil, 2013-2016. ~60,000 €, 1 PhD position funded.

CTM2011-27891 – "Flujos a la atmósfera de gases con efecto invernadero en el Parque Natural Bahía de Cádiz: Interrelación con factores antrópicos", PI Prof. Teodora Ortega Diaz, UCA, Spain; Roberta Guerra: co-investigador. Comisión Interministerial de Ciencia y Tecnología (C.I.C.Y.T.) España, 2012-2015. UCA: 145,200 €

Grant 266473 'Unravelling and exploiting Mediterranean Sea microbial diversity and ecology for Xenobiotics' and pollutants' clean up (ULIXES)", UNIBO PI: Prof. Fabio Fava, Roberta Guerra: co-investigador. EU Actions for International Cooperation with Mediterranean Countries, 2011-2014. 2,993,812 €; UNIBO share: 176,398 €.

KR10MO4 "The historical trend and the origin of Persistent Organic Pollutants (POPs) in coastal and marine sediments of Korea and Italy", PI: Roberta Guerra. 9° Executive Programme for Scientific and Technological Cooperation between Italy and South Korea, Italian Ministry of Foreign Affairs, 2010-2012. Funding of 2 outgoing researcher missions to the Pukyong National University and two incoming researcher missions to the University of Bologna per year.

IAEA-CU-2010-02 World-wide open proficiency test on the determination of selected elements in sewage sludge, Local coordinator Lab58. International Atomic Energy Agency, Seibersdorf, Austria, 2010-2011.

IAEA-CU-2010-03 World wide open proficiency test on the determination of natural radionuclides in water and Ra-226 in soil, Local coordinator Lab 116, International Atomic Energy Agency, 2010-2011.

IAEA-CU-2009-03 World-wide proficiency test on the determination of natural and artificial radionuclides in moss-soil and spiked water, Local coordinator Lab 155, International Atomic Energy Agency, 2009-2010.

550014/2007-1 "Geochemistry of Sterols in sediments cores from South Shetlands Island, Antarctic Peninsula: sources, degradation process and local environmental changes", PI Prof. César de Castro Martins, Centro de Estudos do Mar da Universidade Federal do Paraná, Brazil, Roberta Guerra: co-investigador. Programa Antártico Brasileiro (PROANTAR) CNPq, 2007-2010. UFPR: 37,803.49 R\$

"Flussi idrici e di nutrienti dalla collina alla costa. Uno strumento per la valutazione della

qualità di ecosistemi in Emilia-Romagna”, PI Prof.ssa P. Rossi, Roberta Guerra: co-investigator. DiSTA Dipartimento di Scienze e Tecnologie Agroambientali - Università di Bologna. University of Bologna Strategic Project, 2007-2009. UNIBO: 75,000 €

Awards and Honors

EU Erasmus Monitoring Programme, 14C Chrono Centre, Queen’s University of Belfast, UK, Travel Grant	2024
Nowegian Polar Institute, Kongsfjorden Flagship System, Oslo Fornebu, Norway, Travel Grant	2023
Nowegian Polar Institute, Kongsfjorden Flagship System meeting, Fram Centre, Tromso, Norway, Travel Grant	2022
EU Erasmus Monitoring Programme, Josef Stefan Institute, Lubjana, Slovenia, Travel Grant	2019
COST Action CA 15217 OceanGov, Cadiz, Spain, Travel Grant	2019
COST Action CA 15217 OceanGov, Cadiz, Spain, Travel Grant	2018
ESF - EARTH-TIME Research Networking, Seville, Spain, Travel award	2015
ESF - Cold-Water Carbonate Mounds in Shallow and Deep Time – The European Research Network (COCARDE), Cadiz, Spain, Travel award	2014
University of Bologna, Biophysics Institute, UFRJ, Rio de Janeiro, Travel award	2012
ESF-FWF Conference in Partnership with LFUI Submarine Paleoseismology, Universitätszentrum Obergurgl, Austria, Travel Grant	2010
EU European Network for Coastal Research (ENCORA), Conference Pollution prevention, detection and mitigation Workshop, Paris, France, Travel Grant	2007
University of Bologna, Marco Polo Prize, Travel & Research Grant	2002
University of Bologna Young Scientist Award, Research Grant	2000

Workshop and service

Scientific Committee ‘Effects of climate change on oceans’, Ravenna, Italy	2021
Committee Member Physics Department Board, UNIBO	2020-present
Committee Member University Campus Libraries, UNIBO	2020-present
WG group member ‘Clean Ocean’ and ‘Predicted Ocean’, UN Decade of Ocean Science for Sustainable Development 2021–2030, North Atlantic Regional Workshop, Halifax, Canada	2020
Member, Kongsfjorden Flagship System, Norwegian Polar Institute	2019-present
Chair Working Group ‘Ocean, acidification and climate change, EU COST Action Ocean Governance	2016-2020
Committee Member EU COST Action Ocean Governance, elected	2016-2010
Committee Member PhD Marine Sciences, UCA, Spain	2014
Committee Member PhD Erasmus Mundus MACOMA	2013-2020
Committee Member PhD Oceanography, UCA, Spain	2011
Committee Member MSc Marine Biology, UNIBO	2010-2018
Committee Member MSc Environmental Analysis and Management, UNIBO	2007-present

Publications

Scopus Author ID: 7005438912
ResearcherID: B-8587-2012
SciProfiles: 1288335
ORCID: 0000-0002-7151-6616

Books

Nina Bednaršek, Bleuenn Guilloux, Charles Galdies; Donata Melaku Canu, Richard Feely, Roberta Guerra, Blaženka Gašparović, Jelena Godrijan, Alenka Malej, Simona Simoncelli, Cosimo Solidoro, Valentina Turk, Serena Zunino (2023). Ocean Acidification as a Governance Challenge in the Mediterranean Sea: Impacts from Aquaculture and Fisheries. In S. Partelow, M. Hadjimichael, A.K. Hornidge (eds) Ocean Governance Knowledge Systems, Policy Foundations and Thematic Analyses. MARE Publication Series (MARE, volume 25). Springer Cham, ISBN: 978-3-031-20742-6. VII, pp. 403-432. (eBook) <https://doi.org/10.1007/978-3-031-20740-2>

Segrè, A., Vittuari, M., Sambucini, G., Handyside, J., Djordjevic Milosevic, S., Young, A., Bruzzi, L., Boragno, V., Guerra, R., Canali, M., Gomez y Paloma, S., Danuso, F., Zuliani, M. (2006). Sustainable Development and International Cooperation in the Adriatic-Ionian Basin. pp. 197. ISBN: 88-8342-521-X. BOLOGNA: Pendragon.

Bruzzi L., Guerra, R., and Rinaldi, C. (2003). The right to a clean environment in CEE countries: the sustainable development during post communist transition. In: Post Communist Transition and Regional Economic Cooperation, edited by Milica Uvalic, Longo Editore Ravenna, Italy, pp.159-180.

Journal Articles

In preparation

Guerra, R., Blaauw, M., Giansiracusa, S., Langone, L., Miserocchi, S., Giglio, F., Historical record of organic ultraviolet filters, syntetic musks, and polycyclic aromatic hydrocarbons in an Arctic fjord (Kongsfjorden, Svalbard). *Science of Total Environment*

Guerra, R., Pasteris, A., Alessandri, J., Santinelli, V., Aragao, L., Mentaschi, L., Influence of climate change on the sources and composition of sedimentary organic carbon in the Northwestern Adriatic (Mediterranean Sea). *Front. Clim.*

Turicchia, E., Tamburini, M., Badocco, D., **Guerra, R.**, Lasut, M., Pastore, P., Ponti, M. Impact of gold mining activities on *Polycarpa aurata* in the North Sulawesi, Indonesia. *Marine Pollution Bulletin*

Løvgren Graversen, A.E., Addamo, A.M., Krause-Jensen, D., Lønborg, C. et al. including **Guerra, R.** EURO-CARBON database. *Limnology and Oceanography Letters*

Artur Pazlac et al. including **Guerra, R.** Biogenic Data Products to Advance Ocean Carbon Sequestration Modelling in the Arctic. *Front. Mar. Sci.*

Santos da Costa, V., Alessandri, J., Aragão, L., Verri, G., Mentaschi, L., **Guerra, R.**, Santinelli, V., Pinardi, N., Perspectives on Climate Change in the Adriatic Sea through Sea State Indicators. *Front. Clim.*

Published (Scopus) * denotes student, all works peer-reviewed

Mentaschi L, Lovato T, Butenschön M, Alessandri J, Aragão L, Verri G, **Guerra R**, Coppini G and Pinardi N (2024) Projected climate oligotrophication of the Adriatic marine ecosystems. *Front. Clim.* 6:1338374. doi: 10.3389/fclim.2024.1338374

Maxwell, T.L., Rovai, A.S., Adame, M.F. et al. including **Guerra, R.**, Global dataset of soil organic carbon in tidal marshes. *Sci Data* 10, 797 (2023). <https://doi.org/10.1038/s41597-023-02633>

Galdies C. and **Guerra R.**, 2023. High resolution estimation of daily ocean dissolved inorganic carbon, total alkalinity and pH based on deep learning. *Water* 15, 1454. <https://doi.org/10.3390/w15081454>

Guerra R., Simoncelli S, Pasteris A., 2022. Carbon accumulation and storage in a temperate coastal lagoon under the influence of recent climate impacts change (Northwestern Adriatic Sea). *Regional Studies in Marine Science*, <https://doi.org/10.1016/j.rsma.2022.102439>

Tamburini M., Badocco, D., Ercadi R., Turicchia E., Zampa G., Gasparini F., Ballarin L., **Guerra R.**, Lasut M.T., Makapedua D.M., Mamujaja J., Pastore P., Ponti M., 2022. Bioaccumulation of mercury and other trace elements in the edible holothurian *Holothuria* (*Halodeima*) atra in relation to gold mining activities in North Sulawesi, Indonesia. *Front. Mar. Sci.* <https://doi.org/10.3389/fmars.2022.863629>

Birch GF, Lee JH, Tanner E, Fortune J, Munksgaard N, Whitehead J, Coughanowr C, Agius J, Chrispijn J, Taylor U, Wells F, Bellas J, Besada V, Viñas L, Soares-Gomes A, Cordeiro RC, Machado W, Santelli RE, Vaughan M, Cameron M, Brooks P, Crowe T, Ponti M, Airoidi L, **Guerra R.**, Puente A, Gómez AG, Zhou GJ, Leung KMY, Steinberg P, 2020 Sediment metal enrichment and ecological risk assessment of ten ports and estuaries in the World Harbours Project. *Mar Pollut Bull* 155:111129, 1- 23. <https://doi.org/10.1016/j.marpolbul.2020.111129>

Charles Galdies, Richard Bellerby, Donata Melaku Canu, Wenting Chen, Enrique Garcia-Luque, Blazenka Gasparovic, Jelena Godrijan, Paul J Lawlor, Frank Maes, Alenka Malej, Dionisios Panagiotaras, Beatriz Martinez Romera, Claire E Reymond, Julien Rochette, Cosimo Solidoro, Robert Stojanov, Rachel Tiller, Isabel Torres De Noronha, Grzegorz Uścińowicz, Natasha Vaidianu, Cormac Walsh, **Roberta Guerra**, 2020. European policies and legislation targeting ocean acidification in European Waters - current state. *Marine Policy* 118, 1-13. <https://doi.org/10.1016/j.marpol.2020.103947>

Combi T*, Pintado-Herrera MG, Lara-Martin PA, Marilia L Rocha, Miserocchi S, Langone L, **Guerra R.**, 2020. Historical sedimentary deposition and flux of PAHs, PCBs and DDTs in sediment cores from the western Adriatic Sea. *Chemosphere* 125029 241, 1-11. <https://doi.org/10.1016/j.chemosphere.2019.125029>

Torre BM*, Borrero-Santiago AR, Fabbri E, **Guerra R.**, 2019. Trace metal levels and toxicity in the Huelva Estuary (Spain): a case study with comparisons to historical levels from the past decades. *Environmental Chemistry and Ecotoxicology* 1: 12–18. <https://doi.org/10.1016/j.eneco.2019.07.002>

Guerra R., Pasteris A, Righi S, Gon Ok, 2019. Historical record of polychlorinated biphenyls (PCBs) in the continental shelf of the Korea Strait. *Chemosphere* 124438 237: 1-11, <https://doi.org/10.1016/j.chemosphere.2019.124438>

Rachel Tiller, Francisco Arenas, Charles Galdies, Francisco Leitão, Alenka Malej, Beatriz Romera, Cosimo Solidoro, Robert Stojanov, Valentina Turk, **Roberta Guerra** (2019) Who cares about Ocean Acidification in the Plasticene? *Ocean and Coastal Management* 174: 170–180. <https://doi.org/10.1016/j.ocecoaman.2019.03.020>

Roberta Guerra, Francisco J Santos Arévalo, Lidia Agulló García, Rafael García-Tenorio, 2019. Radiocarbon Measurements of Foraminifera with the Mini Carbon Dating System (Micadas) at the Centro Nacional de Aceleradores. *Nuclear Instruments and Methods in Physics Research B* 448: 39-42. <https://doi.org/10.1016/j.nimb.2019.04.004>

Emanuela Pignotti, **Roberta Guerra**, Stefano Covelli, Elena Fabbri, Enrico Dinelli. Sediment quality assessment in a coastal lagoon (Ravenna, NE Italy) based on SEM-AVS and sequential extraction procedure Sediment Quality Assessment in a coastal lagoon (Ravenna, Ne Italy) based On SEM/AVS And Sequential Extraction Analyses. *Science of Total Environment* 635: 216-227. <https://doi.org/10.1016/j.scitotenv.2018.04.093>

Marilia L Rocha*, Leonardo Langone, Stefano Miserocchi, Patrizia Giordano, **Roberta Guerra** (2017) Detecting long-term temporal trends in sediment-bound metals in the

western Adriatic (Mediterranean Sea). *Marine Pollution Bulletin* 124, 270–285. <https://doi.org/10.1016/j.marpolbul.2017.07.026>

Marilia L Rocha*, Leonardo Langone, Stefano Miserocchi, Patrizia Giordano, **Roberta Guerra** (2017). Spatial patterns and temporal trends of trace metal mass budgets in the western Adriatic sediments (Mediterranean Sea). *Science of Total Environment* 599–600: 1022–1033. <https://doi.org/10.1016/j.scitotenv.2017.04.114>

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