

Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Andrea BARBANTI**
Nationality Italian
Date of birth
Address
Phone
E-mail andrea.barbanti@ismar.cnr.it

Work experience

Dates	07/2015 – present
Occupation or position held	Research Manager
Main activities and responsibilities	Science to policy transfer, scientific support to marine policy implementation, research exploitation and strategic development in the Blue Growth domain, Project Management of national and international research projects, research activities on integrated coastal management and maritime spatial planning.
Name and address of employer	National Research Council – Institute of Marine Sciences – Castello 2737/f Venice, Italy
Dates	08/2012 – 09/2014
Occupation or position held	Researcher
Main activities and responsibilities	Scientific coordination and management of research activities on Integrated Coastal Management and Maritime Spatial Planning, development and application of decision support tools for marine policy implementation, transfer of knowledge and research results to administrations and policy makers, stakeholder engagement processes.
Name and address of employer	National Research Council – Institute of Marine Sciences – Castello 2737/f Venice, Italy
Dates	08/2011 - 06/2015
Occupation or position held	Senior Consultant
Main activities and responsibilities	Consultancy on environmental engineering and marine policy. Science to policy transfer and Project Management.
Name and address of employer	Public and private entities
Dates	01/2009-07/2011
Occupation or position held	Manager, Environmental and Territory Engineering Department
Main activities and responsibilities	Managerial and Technical responsibility of the Department
Name and address of employer	Thetis SpA , Castello 2737/f – 30122 Venice, Italy
Dates	02/2007-12/2008
Occupation or position held	Senior Researcher
Main activities and responsibilities	Management of research projects dealing with remediation of polluted industrial sites in coastal areas, chemical and ecological status of water bodies, sediment management; environmental policy implementation; technical and scientific assistance.
Name and address of employer	Institute for Environmental Protection and Research, ISPRA –Via di Casalotti 300 – Rome, Italy
Dates	01/2007-12/2008
Occupation or position held	Senior Consultant
Main activities and responsibilities	Technical and scientific assistance to the Commissioner for the socio-environmental emergency in the Marano-Grado lagoon (Italy).
Name and address of employer	Italian Ministry for the Environment, Land and Sea - Via C. Colombo 44 – Rome, Italy
Dates	01/1999-01/2007
Occupation or position held	1999 – Project Manager and Senior Environmental Specialist 2000-2003 – Manager, Environmental Systems Department 2003-2006 – Project Manager and Senior Environmental Specialist

Main activities and responsibilities	Technical responsibility, management and development of the company activities in the environmental sector. Technical and managerial responsibility of complex national and international projects. Specialist on environmental analysis, environmental planning and environmental monitoring.
Name and address of employer	Thetis SpA , Castello 2737/f – 30122 Venice, Italy
Dates	1992-1998
Occupation or position held	Project Manager and Environmental Specialist
Main activities and responsibilities	Project Manager and specialist on topics mainly related to water quality and management of water resources and water bodies, including transitional and coastal water bodies, and instrumentation for environmental monitoring.
Name and address of employer	Ismes SpA – Seriate (Bg), Italy
Dates	1990-1992
Occupation or position held	Environmental Monitoring Specialist
Main activities and responsibilities	Development, installation and use of instruments for the unattended environmental monitoring of aquatic environments. Data processing and evaluation.
Name and address of employer	Idronaut s.r.l. – Brugherio (Mi), Italy
Dates	02/1990-08/1990
Occupation or position held	Visiting Scientist at U.S.G.S. – Branch of Atlantic Marine Geology (Woods Hole, Massachusetts–USA)
Main activities and responsibilities	Development of a research program on heavy metals biogeochemistry.
Name and address of employer	National Research Council – Institute of Marine Geology – Bologna, Italy

Education and training

Dates	09/1989
Title of qualification awarded	PhD in Earth Sciences
Principal subjects/occupational skills covered	Geology and Sedimentology, Environmental Geochemistry, Coastal Oceanography, Environmental Monitoring, River Basin Management
Name and type of organisation providing education and training	Associated Universities of Bologna and Modena , Italy
Dates	07/1984
Title of qualification awarded	Degree in Geological Sciences – 110/110 <i>cum laude</i>
Principal subjects/occupational skills covered	Geology and Sedimentology, Environmental Geochemistry, Coastal Oceanography, Environmental Monitoring, River Basin Management
Name and type of organisation providing education and training	University of Bologna , Italy

In brief Andrea Barbanti is Research Manager at CNR-ISMAR, where he develops science-to-policy activities and research initiatives and projects promoting Sustainable Blue Economy at national and EU level, focusing on the Mediterranean basin. He worked in the last 30 years at the boundary between science, marine engineering and policy making / implementation, on behalf of Engineering Companies, Public Administrations and Research Institutions. He was coordinating or involved since 2012 in several National and European projects dealing with Maritime Spatial Planning (MSP). His research activities focus on the trade-off -synergies analysis of multiple sea uses, analysis of cumulative effects from human activities and development of open source tools to support MSP implementation (www.tools4msp.eu). He was National Focal Point for the UNESCO IOC / EC MSPglobal Initiative and is co-coordinating a team of scientists and experts supporting Italian MSP Competent Authority in the preparation of national MSP Plans.

Organisational / Managerial skills

- Experience in leading multi-disciplinary and multi-national teams of scientists and technicians within large national and international programmes, hands-on experience in coordinating teams of scientists with teams of engineers and their relationship with decision-makers.
- Long experience in project management, including planning project activities, resources management, cost control, relationships with customers and suppliers.
- Management of human resources and research groups.
- Development of new ideas, projects and initiatives, from conception to implementation, in the private sector and the research arena.
- Coordination of the participation to tenders and calls for proposal.



Technical skills

- Integrated Coastal Zone Management / Maritime Spatial Planning, backed up by a solid cross-sectoral background spanning thirty years.
- Technical assistance to policy implementation (e.g. ICZM, Maritime Spatial Planning, Water Framework Directive, Marine Strategy Framework Directive, Floods Directive, EIA & SEA Directive, Habitat & Birds Directive, Regional Strategies and Initiatives).
- Design, development and application of marine and maritime data management and decision support tools for ICZM-MSP.
- Key enabling factors for Blue Economy: policies, R&I, skills, maritime clusters, funding mechanisms and agencies.
- Long experience in providing cross-disciplinary and cross-organisational links, bridging the gaps between scientists, engineers, policy makers and the public.
- Masterplanning for the remediation of Brownfields and for watershed-based water resources protection and management (River Basin Management).
- Soil and sediment assessment and management, remediation projects and technologies.
- Technical and administrative assistance to local and central Administrations in defining agreements on environmental and territorial measures, also through public-private partnerships.
- Data and documentation analysis and synthesis, including cross-sectoral analysis and integration of scientific, socio-economic and policy data pertaining to the environment.
- Environmental Impact Studies on projects mostly located or dealing with the coastal zone.
- Environmental monitoring, ocean observation and monitoring (design, instrumental setup, data management and processing, QA/QC) and assessment of water bodies, soil and groundwater.

Additional information

Excerpt of relevant projects and professional experience:

September 2022-present: PNRR- National Biodiversity Future Center – NBFC – MSP4BIODIVERSITY (Biodiversity Mainstreaming in Maritime Spatial Planning, Project Coordinator).

September 2022-present: HE-CROSSGOV (Coherent and cross-compliant Ocean Governance for delivering the EU Green Deal for European Seas), Responsible for CNR-ISMAR.

June 2021-present: H2020-BRIDGE-BS (Advancing Black Sea Research and Innovation to Co-Develop Blue Growth within Resilient Ecosystems), Responsible for CNR-ISMAR.

March 2021-present: Technical assistance to the Italian MSP Competent Authority (MIMS) for the preparation of MSP Plans on Italian Marine Waters (Adriatic, Ionian-Central Mediterranean, Tyrrhenian – Western Mediterranean). Responsible for CNR-ISMAR and co-coordinator for CNR-IJAV-CORILA.

February 2021-present: H2020-SATURN (Solutions At Underwater Radiated Noise), Responsible for CNR-ISMAR.

2020-2022: EASME-MSP-MED (Towards the operational implementation of MSP in our common Mediterranean Sea). Responsible for CNR-ISMAR.

2019-2021: Italian National Focal Point for the UNESCO IOC / EC MSPglobal Initiative.

2016-2021: H2020-BLUEMED (Support to the BLUEMED Initiative: Coordination of marine and maritime research and innovation activities in the Mediterranean). Project under Horizon 2020 Programme – Societal Challenge 2. Member of the Project Management Team of CNR and Coordinator of the “Bluemed Policy Platform”.

2019-2022: Interreg IT-HR-SOUNDSCAPE (Soundscapes in the North Adriatic Sea and their impact on marine biological resources). Member of CNR-ISMAR Team (Tasks on: Data integration and tools supporting decisions; Development of mitigation measures to reduce underwater noise and its effects on biological targets).

2018-2022: ITEM (Technological Innovation for the protection and enhancement of marine ecosystems). CTN Blue Growth – Cluster “BIG”. Project ex art.4 e Annex 1 Call MIUR 3/8/2016. Project coordinator.

2018-2022: Interreg MED-MISTRAL (Mediterranean Innovation STRategy for transnational activity of clusters and networks of the Blue Growth). Project under Interreg MED Programme - Priority Axis 1: Promoting Mediterranean innovation capacities to develop smart and sustainable growth. Former responsible for CNR-DSSTTA, responsible for CNR-ISMAR.

2018-2021: Interreg ADRION-PORTODIMARE (geoPortal of Tools & Data for sustainable Management of coAstal and maRine Environment). Responsible for CORILA and CNR-ISMAR.

2018-2020: Interreg MED-PHAROS4MPAs (Blue Economy and Marine Conservation: Safeguarding Mediterranean MPAs in order to achieve Good Environmental Status). Project under Interreg MED Programme - Priority Axis 3: Protecting and promoting Mediterranean natural and cultural resources. Responsible for CNR-ISMAR Venice.

2018-2019: NORA (Development of tools to support participated governance of the uses of the sea in the Maritime Compartment of Chioggia (Italy)). PO FEAMP 2014-2020. Responsible for CNR-ISMAR.

2017-2018: EASME-Dg Mare-SUPREME (SUpporting maritime spatial Planning in the Eastern MEditerranean). Responsible for CNR-ISMAR.

2017-2018: EASME- Dg Mare-SIMWESTMED (Supporting Implementation of Maritime Spatial Planning in the Western Mediterranean region). Task Leader and member of CNR-ISMAR project team.

2016-2019: Interreg MED-CO-EVOLVE (Promoting the co-evolution of human activities and natural systems for the development of sustainable coastal and maritime tourism). Project under Interreg MED Programme - Priority Axis 3: Protecting and promoting Mediterranean natural and cultural resources. Responsible for CNR-ISMAR and WP3 Leader.

2016-2018: H2020-MUSES (Multi-uses of European Seas). Project under Horizon 2020 Programme – Societal Challenge 2 – Blue Growth. Responsible for CNR-ISMAR.

2015-2017: RITMARE Flagship Programme, The Italian research for the sea. Responsible for CNR-ISMAR of Research Line “ICM-MSP in the Adriatic-Ionian Region”.

2015-2016: Studies on the environmental status of the Venice Lagoon and on topics related to the sustainable development of Port activities. Client: Venice Port Authority - CORILA. Responsible for the activities assigned to CNR-ISMAR.

2013-2015: Dg Mare-ADRIPLAN (ADRIatic Ionian maritime spatial PLANning) project (MARE/2012/25). Project coordinator (2013-2014) and WP3 Leader (2015) for CNR-ISMAR.

Selected publications:

- Carrer S., G. Coffaro, M. Bocci, A. Barbanti - 2005 - Modelling partitioning and distribution of micropollutants in the lagoon of Venice: a first step toward a comprehensive ecotoxicological model. *Ecological Modeling*, 184: 83-101. <http://dx.doi.org/10.1016/j.ecolmodel.2004.11.019>.
- Apitz S.E., A. Barbanti, M. Bocci, A. Carlin, L. Montobbio, A.G. Bernstein – 2007 - The sediments of the Venice Lagoon (Italy) evaluated in a risk assessment and management approach: Part I - Application of international sediment quality guidelines (SQGs). *Integr Environ Assess Management*, 3(3):393-414. http://dx.doi.org/10.1897/IEAM_2006-001.
- Apitz S.E., A. Barbanti, M. Bocci, A. Carlin, L. Montobbio, A.G. Bernstein – 2007 - The sediments of the Venice Lagoon (Italy) evaluated in a risk assessment and management strategy approach: Part II - Lagoon sediment quality compared to hotspots, regional and international case studies. *Integr Environ Assess Management*, 3(3):415-438. http://dx.doi.org/10.1897/IEAM_2006-005.
- Apitz S.E., A. Barbanti, M. Bocci, A.G. Bernstein, E. Delaney, L. Montobbio – 2007 - The Assessment of Sediment Screening Risk in Venice Lagoon and Other Coastal Areas Using International Sediment Quality Guidelines. *Journal of Soils and Sediments*, 7(5) 9A, 326-341. <http://dx.doi.org/10.1065/jss2007.08.246>.
- E. Ramieri, A. Hartley, A. Barbanti, F. Duarte Santos, A. Gomes, M. Hilden, P. Laihonon, N. Marinova, M. Santini – 2011 – Methods for assessing coastal vulnerability to climate change. ETC CCA Technical Paper 1/2011.
- Gieskes J.M., S. Han, A. Rathburn, G. Rothwell, M.E. Pérez, M. Porrachia, A. Barbanti, D.D. Deheyn – 2015 - Anthropogenic contaminants in Venice Lagoon sediments and their pore fluids: Results from the SIOSED Project. *Mar. Chem.*, 174: 73–84. doi:10.1016/j.marchem.2015.05.008.
- Barbanti A., P. Campostrini, F. Musco, A. Sarretta, E. Gissi (eds.) – 2015 - Developing a Maritime Spatial Plan for the Adriatic-Ionian Region. CNR-ISMAR, Venice, IT. ISBN 978-88-941335-4-7.
- Trincardi F., A. Barbanti, M. Bastianini, A. Benetazzo, L. Cavaleri, J. Chiggiato, A. Papa, A. Pomaro, M. Sclavo, L. Tosi, and G. Umgiesser – 2016 - The 1966 Flooding of Venice: What Time Taught Us for the Future. *Oceanography*, 29(4), <https://doi.org/10.5670/oceanog.2016.87>.
- Depellegrin D., S. Menegon, G. Farella, M. Ghezzi, E. Gissi, A. Sarretta, C. Venier, A. Barbanti – 2017 - Multi-objective spatial tools to inform maritime spatial planning in the Adriatic Sea. *Science of The Total Environment*. 2017;609: 1627–1639. doi:10.1016/j.scitotenv.2017.07.264 O.
- Gissi E, S. Menegon, A. Sarretta, F. Appiotti, D. Maragno, A. Vianello, D. Depellegrin, C. Venier, A. Barbanti - 2017 - Addressing uncertainty in modelling cumulative impacts within maritime spatial planning in the Adriatic and Ionian region. Hewitt J, editor. *PLOS ONE*. 2017;12:e0180501. doi:10.1371/journal.pone.0180501.

Barbanti A., Gissi E., Musco F., Sarretta A., Appiotti F., Bianchi F., Venier C., Maragno D., Innocenti A., Morelli M., Menegon S., Cocossis C., Campostrini P., 2017. Towards MSP implementation in the Adriatic and Ionian Region. In: D. Kitsiou and M. Karydis Eds., *Marine Spatial Planning: Methodologies, Environmental Issues and current trends*, NOVA Books. ISBN: 978-1-53612-170-4.

Menegon S., D. Depellegrin, G. Farella, E. Gissi, M. Ghezzi, A. Sarretta, C. Venier, A. Barbanti – 2018 - A modelling framework for MSP-oriented cumulative effects assessment. *Ecological Indicators* 91 (2018) 171–181. <https://doi.org/10.1016/j.ecolind.2018.03.060>.

Menegon S., D. Depellegrin, G. Farella, A. Sarretta, C. Venier, A. Barbanti – 2018 - Addressing cumulative effects, maritime conflicts and ecosystem services threats through MSP-oriented geospatial webtools. *Ocean & Coastal Management*, 163: 417–436. doi:10.1016/j.ocecoaman.2018.07.009 (pre-print version doi:10.5281/zenodo.1220260 open access CC-BY 4.0).

Schultz-Zehden A., Lukic I., Ansong J.O., Altvater S., Bamlett R., Barbanti A., Bocci M., Buck B.H., Calado H., Caña Varona M., Castellani C., Depellegrin D., Schupp M.F., Giannelos I., Kafas A., Kovacheva A., Krause G., Kyriazi Z., Läkamp R., Lazić M., Mourmouris A., Onyango V., Papaioannou E., Przedzrymirska J., Ramieri E., Sangiuliano S., van de Velde I., Vassilopoulou V., Venier C., Vergilio M., Zaucha J., Buchanan B – 2018 - Ocean Multi-Use Action Plan, MUSES project. Edinburgh.

Menegon S, Sarretta A., Depellegrin D., Farella G., Venier C., Barbanti A. – 2018 - Tools4MSP: an open source software package to support Maritime Spatial Planning. *PeerJ Comput Sci.*; 4: e165. doi:10.7717/peerj-cs.165.

BLUEMED Italian White Paper Working Group – 2018 The BLUEMED Italian White Paper: an overview of relevance, obstacles and proposals of the key sectors for a Blue Growth. Roma: CNR Edizioni. doi.org/10.5281/zenodo.1306490.

Cappelletto M., Fava F., Mazari Villanova L., Trincardi F., Barbanti A., Bonanno A., Buongiorno Nardelli B., Ciappi, Palamà D., Ribera d'Alcalà M., Sarretta A., Sprovieri M., 2018. Codeveloping Research and Innovation Strategies for blue jobs and growth in the Mediterranean area. The BLUEMED Initiative. *Environmental Engineering and Management Journal*, Vol.17, No.10: 2313-2327.

Barbanti A., M. Cappelletto, E. Ciappi, J. de Lara Rey, G. Herrouin, N. Papandroulakis, F. Trincardi (Eds.) – 2018 – BLUEMED Strategic Research and Innovation Agenda (SRIA), Updated version 2018. Realized by the BLUEMED Coordination and Support Action, Horizon 2020 - BG-13-2016, Grant Agreement 727453.

Barbanti A., Perini L., 2018. Fra la terra e il mare: analisi e proposte per la Pianificazione dello Spazio Marittimo in Emilia-Romagna. ISBN 978-88-941335-0-9. [Internet] Zenodo; <https://zenodo.org/record/1184364#.XkvqEihKiUk> (open access CC-BY 4.0).

Depellegrin D., C. Venier, Z. Kyriazi, V. Vassilopoulou, C. Castellani, E. Ramieri, M. Bocci, J. Fernandez, A. Barbanti – 2019 - Exploring Multi-Use potentials in the Euro-Mediterranean sea space. *Science of The Total Environment*, 653: 612–629. <https://doi.org/10.1016/j.scitotenv.2018.10.308>.

Francocci F., Paifelman E., Ciappi E., Cedre A., Le Corff C., Ruel C., Efstratiou C., Falini G., Giannakourou A., Solano-Lopez J.M., Strogyloudi E., Raddadi N., Pistocchi R., Valentini S. and Barbanti A., 2019. MISTRAL Blue Growth Book. State of the art assessment and overview on the most relevant drivers and opportunities in the Mediterranean Blue Economy. MISTRAL project, Deliverable D3.1.2.

Farella G., Menegon S., Fadini A., Depellegrin D., Manea E., Perini L., Barbanti A. – 2020 - Incorporating Ecosystem Services conservation into a scenario-based MSP framework: an Adriatic case study. *Ocean and Coastal Management* 193:105230. Doi: 10.1016/j.ocecoaman.2020.105230.

Trincardi F., Cappelletto M., Barbanti A., Cadiou J.F., Bataille A., Campillos M., Chacón Campollo E., Trujillo Quintela A. – 2020 - Preliminary Implementation Plan, D2.9. Realized by the BLUEMED Coordination and Support Action, Horizon 2020 - BG-13-2016, Grant Agreement 727453.

Van den Burg S., Schupp M.F., Depellegrin D., Barbanti A., Kerr S. – 2020 - Development of multi-use platforms at sea: Barriers to realising Blue Growth. *Ocean Engineering* 217 (2020) 107983. <https://doi.org/10.1016/j.oceaneng.2020.107983>.

Francocci F., Trincardi F., Barbanti A., Zacchini M., Sprovieri M. – 2020 - Linking Bioeconomy to Redevelopment in Contaminated Sites: Potentials and Enabling Factors. *Front. Environ. Sci.* 8:144. doi: 10.3389/fenvs.2020.00144.

Farella, G., Tasseti, A. N., Menegon, S., Bocci, M., Ferrà, C., Grati, F., Fadini, A., Giovanardi, O., Fabi, G., Raicevich, S., & Barbanti, A. - 2021. Ecosystem-Based MSP for Enhanced Fisheries Sustainability:

An Example from the Northern Adriatic (Chioggia—Venice and Rovigo, Italy). Sustainability, 13(3), 1211. Doi: 10.3390/su13031211.

Venier C., Menegon S., Possingham H.P., Gissi E., Zanella A., Depellegrin D., Sarretta A., Barbanti A., McGowan J. - 2021 - Multi-objective zoning for aquaculture and biodiversity. Science of The Total Environment, Volume 785, 146997. <https://doi.org/10.1016/j.scitotenv.2021.146997>

Cappelletto M., Santoleri R., Evangelista L., Galgani F., Garcés E., Giorgetti A. Fava F., Herut B., Hilmi K., Kholeif S., Lorito S., Sammari C., Campillos Lianos M., Celussi M., D'Alelio D., Francocci F., Giorgi G., Melaku Canu D., Organelli O., Pomaro A., Sannino G., Segou M., Simoncelli S., Babeyko A., Barbanti A., Chang-Seng D., Cardin V., Casotti R., Drago A., El Asmi S., Eparkhina D., Fichaut M., Hema T., Procaccini G., Santoro F., Scoullos M., Solidoro C., Trincardi F., Tunesi L., Umgieser G., Zingone A., Ballerini T., Chaffai A., Coppini G., Gruber S., Knezevic J., Leone G., Penca J., Pinardi N., Petihakis G., Rio MH., Said M., Siokouros Z., Srouf A., Snoussi M., Tintoré J., Vassilopoulou V., Zavatarelli M., 2021. The Mediterranean Sea we want. Ocean and Coastal Research, v69(suppl):e21031. <https://doi.org/10.1590/2675-2824069.21019mc>.

Przedzrymirska J., Zaucha J., Calado H., Lukic I., Bocci M., Ramieri E., Cana Varona M., Barbanti A., Depellegrin D., de Sousa Vergílio M., Schultz-Zehden A., Onyango V., Papaioannou E., Buck B.H., Krause G., Schupp M.F., Läkamp R., Szefer K., Michalek M., Maniopoulou M., Vassilopoulou V., Kyriazi Z., Gawlikowska-Hueckel K., Szultka S., Orobello C., Gee K., Buchanan B., Lazić M., 2021. Multi-Use of the Sea as a Sustainable Development Instrument in Five EU Sea Basins. Sustainability 2021, 13(15), 8159; <https://doi.org/10.3390/su13158159>.

Menegon S., A. Fadini, L. Perini, A. Sarretta, D. Depellegrin, E. De Maio, G. Farella, M. Landini, C. Fava, C. Ferrarin, M. Ghezzi, E. Manea, E. Porporato, R. Pastres, O. Sedioli, D.V. Politikos, I. Maina, S. Kavadas, R. Matarrese, A. Barbanti. 2023. A geoportal of data and tools for supporting Maritime Spatial Planning in the Adriatic-Ionian Region. Environmental Modelling and Software 160 (2023), <https://doi.org/10.1016/j.envsoft.2022.105585>.

Venice, 08 May 2023

Andrea Barbanti, PhD

