

# Vincenzo Maccarrone -Curriculum vitae

Istituto per le Risorse Biologiche e le Biotecnologie Marine - Consiglio Nazionale delle Ricerche, sede secondaria di Mazara del Vallo

Address: Via Luigi Vaccara, 61 - Mazara del Vallo (TP)

Postal code: 91021

Country: Italy

Tel.: +39 0924 40600

Fax: +39 0924 40445

Mobile +39 omissis

e-mail: [vincenzo.maccarrone@cnr.it](mailto:vincenzo.maccarrone@cnr.it)

---

Dr. Vincenzo Maccarrone is permanent Researcher-Technologist at IAS-CNR. He currently focused his research interest on maritime spatial planning and coastal zone management at local level. He has studying the decisional support systems to assess and drive best practice on marine policy; GIS and web GIS technologies to improve the quality of shared information on maritime spaces and resources, studies to improve the quality perceived from consumers of marine living resources.

## Education

**September 2014.** Advanced training for strengthening of multidisciplinary marine research infrastructure in Sicily, Campania and Puglia as a contribution to the ESFRI EMSO (EMSO-MEDIT). Course in Research Infrastructure Manager.

**July 2014.** “Marsafenet Training School on Maritime Security and Safety from Theory to Practice” Programm Horizon 2020 COST Actions, Procida, Italy from 1 to 4 July 2014.

**Decembre 2008.** Master on Cooperation between research and enterprises promoted by National council research of Mazara del vallo (Italy) and Mazara del Vallo Municipality. Financed with fund of Information communication technology project promoted by Sicilian Region

**April 2007.** Ph.D in Commodities Science, dissertation : The integrated coastal zone management. The promotion of sustainable fisheries and aquaculture in consideration of environment, economy and the quality of products. Aquaculture in Sicily.

**April 2000** Scholarship on: Integrated coastal zone management and wetland, using GIS and Artificial neural networks

**November 1997** Bachelor degree in Natural Science. Dissertation: Analysis fishes bycatches in the Vibo Valentia sea area vote of 110/110

## Language skills auto evaluation Europass

Mother thong Italian

<i>Lingua</i>	<i>Comprensione</i>	<i>Parlato</i>	<i>Scritto</i>
<i>Inglese</i>	B2	B2	B2
<i>Spagnolo</i>	B2	B1	B1

## Computers skills:

operative systems used: Linux, Windows, Mac OSX

### *Software frequently used:*

Word processing	Microsoft word, Open Office Processor
Statistics and calculations	Microsoft excel, Open Office, R-cran
Presentation	Microsoft powerpoint, Open Office
Geographic information systems, image analysis, modelling / environmental statistics	Quantum GIS, GRASS GIS, ESRI ARCGIS, ESRI ARCGIS Server, VIEW 3.X, MapSERVER, Latitude Geocortex, PMAPPER, ERDAS IMAGE, Saga GIS, Fisat II
Computer-Aided Design	Free CAD, Autodesk Autocad, Autodesk Inventor
Sistemi per la gestione di contenuti web	Joomla, Wordpress, Plone

## WORK EXPERIENCE

<i>Period</i>	from 2002 to today
<i>Services</i>	Participation as member of selection panel for employees selection of National council research, services agreement.
<i>Activity</i>	Member of selection panel

<i>Period</i>	<i>Gennary 2019</i>
<i>Services</i>	Participation to “Interreg MED MISTRAL” project Mediterranean Innovation Strategy for transnational activities af cluster and networks of the Blue Growth”.
<i>Activity</i>	Work collaboration for environmental monitoring of coastal tourism case study Italy

<i>Period</i>	<i>March 2018 – December 2018</i>
<i>Services</i>	Participation to “SimwestMed” project upporting Implementation of Maritime Spatial Planning in the Western Mediterranean”.
<i>Activity</i>	Work collaboration for Malta case study

<i>Period</i>	<i>Febrary 2017</i>
<i>Services</i>	Screeneen of prioricity activities for Natura 2000 net in Sicily from2014 to 2020
<i>Activity</i>	Collaboration and workgroup costitution for Priorized Action Framework (PAF) in Sicily

<i>Period</i>	<i>October 2016- March 2017</i>
<i>Services</i>	Research project on “International advanced study centre on environment, ecosystem and human health”,

<i>Activity</i>	Maritime spatial planning activities and legislative regulation in high anthropogenic impact areas
-----------------	--

<i>Period</i>	<i>August- September 2016</i>
<i>Services</i>	Research project "MAGINOT" integrate system for monitoring marine, urban and peri-urban areas.
<i>Activity</i>	Development and analysis of a coastal zone management systems for management marine biological data using GIS Web-GIS Technologies.

<i>Period</i>	<i>April 2016 – January 2018</i>
<i>Services</i>	Appointment as head of Maritime spatial planning research group and related lab.
<i>Activity</i>	Study and research linked to the coastal resources uses in anthropized coastal area. Analysis and promotion of new product, processes and services aimed to improve the efficiency and sustainability of economic growth.

<i>Period</i>	<i>June 2017</i>
<i>Services</i>	Organization of workshop "Blue Maritime spatial Planning: are our cost ready to maritime spatial planning?"
<i>Activity</i>	Coordinator and organization

<i>Period</i>	<i>January 2016 – in course</i>
<i>Services</i>	Member of Marine strategy framework Directive (2008/56/CE) Italian working group. Support to governance activities for monitoring plans
<i>Activity</i>	Collaboration to writing monitoring plans and digital maps of study areas.

<i>Period</i>	<i>September 2015 – in course</i>
<i>Services</i>	Member of Underwater noise working group for definition of Italian monitoring plan of descriptor 11 of Marine Strategy Framework Directive 2008/56/CE
<i>Activity</i>	Writing of monitoring plans, data analysis, assessment of mean level of underwater noise.

<i>Period</i>	<i>April 2016 – to 2017</i>
<i>Services</i>	Head of Maritime Spatial Planning laboratory
<i>Activity</i>	Studies and research related to the uses of the maritime areas affected by human activities in order to ensure the efficiency and economic and environmental sustainability involving stakeholders and policymaker in the resource and environmental management processes.

<i>Period</i>	<i>November 2015 –December 2015</i>
<i>Activity</i>	Project "Azzurro di Sicilia" EFF: Development of new markets and promotional activities, Measure 3.4 - EFF Sicilia 2007-2013 ". Promotion of consumption bluefish for sustain the artisanal fisheries seafood chain
<i>Role</i>	Coordination of promotional and exploitation project activities.

<i>Period</i>	<i>September 2014 –September 2015</i>
<i>Services</i>	Project of seabed characterization, cetacean monitoring, posidonia mapping and visual census of fauna in the MAP of Lampedusa and Linosa Islands (Sicilian channel Italy)

<i>Objectives</i>	Analysis of limits and distribution <i>Posidonia oceanica</i> .
<i>Role</i>	Head of <i>Posidonia oceanica</i> monitoring

<i>Period</i>	<i>July 2014 –December 2015</i>
<i>Activity</i>	Realization and starting of activities in the laboratories of the Institute for Coastal Marine Environment of the National Research Council (IAMC-CNR) in Capo Granitola (Sicily) of the Sicilian biodiversity observatory. In agreement to Department of Land and Environment of the Sicilian Region ARPA, ISPRA and CNR..
<i>Role</i>	Chief operating officer

<i>Period</i>	12-21 June 2014
<i>Activity</i>	For Science and Technology Organization Centre for Maritime Research and Experimentation (STO-CMRE) campaign on board of “Alliance” NATO oceanographic ship for collecting acoustic data along the Sardinia coasts with the aim to characterize the acoustic soundscape and the biological and abiotic acoustic signals
<i>Role</i>	Scientific crew

<i>Period</i>	<i>June 2012-October 2012</i>
<i>Activity</i>	Experimental survey to the characterization of acoustic emission <i>Tursiops truncatus</i> in the Lampedusa coast
<i>Role</i>	Management, storage and processing of geographical (GIS) and acoustic data collected during experimental survey

<i>Period</i>	<i>from 2011 to 2012</i>
<i>Activity</i>	Experimental field study on the aquatic biodiversity of the Natural Reserve “Gorghi Tondi Lakes and Preola”, Mazara del Vallo – Italy
<i>Role</i>	Management, storage and processing of geographical (GIS) and acoustic data collected during experimental survey

<i>Period</i>	<i>December 2011 November 2012</i>
<i>Activity</i>	Stock assessment of <i>Procambarus clarkii</i> population in the WWF natural reserve of "Lago Preola and Gorghi Tondi"
<i>Role</i>	Head Researcher

<i>Period</i>	January 2011-December 2011
<i>Activity</i>	Study on the use acoustic waves on the growing stimulation of unicellular algae ( <i>Scenedesmus obliquus</i> ) for the biodiesel production.
<i>Role</i>	Analysis of
<i>Incarico</i>	Attività di ricerca
<i>Protocollo</i>	IAMC-CNR 0007798 del 21/12/2012

<i>Period</i>	<i>September 2011 March 2012</i>
<i>Activity</i>	Elaboration of environmental risk maps in the Augusta bay (Italy) to study of the mercury impact on human local population resident near the area of Augusta-Melilli and the local seafood chain
<i>Role</i>	Elaboration of space-temporal maps of data collected and pollutants distribution using GIS technologies.

<i>Period</i>	June 2009 – October 2010
<i>Activity</i>	Experimental campaign for the study of interaction between dolphins (in particular Grampus griseus) and fishery activities along the Est Sicily Coast.
<i>Role</i>	data management and organization of field survey.

<i>Period</i>	25 Giugno – 03 Luglio 2010
<i>Activity</i>	Experimental campaign on board of “Urania” oceanographic ship to estimate the biomass of anchovy and sardine, physicochemical surveys of marine sediment in the Sicilian Channel
<i>Role</i>	Scientific Crew

<i>Period</i>	Ottobre 2009 – Aprile 2010
<i>Activity</i>	Analysis the innovation capacity of Sicilian south occidental enterprises and it capacity to promote innovation start-up activities
<i>Role</i>	Project and realize operation to promote an support the creation of research spin-off. Support the proposed during the planning and financing phases

<i>Period</i>	September 2009
<i>Activity</i>	Professional consulting for FC&RR Associati s.r.l. Realize of sustainable development for and eco-touristic program in the Arbus (Sardinia -Italy) coastal area. Development of a web-gis infrastructure.
<i>Role</i>	Design and realization of web gis and management plan

<i>Period</i>	April 2009
<i>Activity</i>	Professional consulting for Alimentaria S.r.l. Report on state about the nutritional properties of caught. activities developed for Project "Antica Cucina dei Borghi Marinari" (traditional kitchen of sea villages)
<i>Role</i>	Senior advisor

<i>Period</i>	March 2008
<i>Activity</i>	For Consiglio Nazionale delle Ricerche U.O. di Capo Granitola: Analysis of product and processes of seafood chain to improve quality and economy of products
<i>Role</i>	Senior advisor

<i>Period</i>	December 2007
<i>Activity</i>	Teaching for The Science and Technology Park of Sicily (PSTS) on Environmental certification
<i>Role</i>	Senior advisor

<i>Period</i>	December 2007 February 2008
<i>Activity</i>	Teaching for The Science and Technology Park of Sicily (PSTS) on Vision 2000 for Environmental consultants
<i>Role</i>	Senior advisor

<i>Period</i>	<i>February 2008</i>
<i>Activity</i>	Professional consulting for Comune di Leni Municipally – Ecosviluppo società consortile eolie. Develop of a balanced scorecard model as a decision support system based on GIS web gis technologies for coastal resources promotion
<i>Role</i>	Senior Expert

<i>Period</i>	<i>June 2007- June 2008</i>
<i>Activity</i>	Collaboration for IAMC-CNR of Mazara del Vallo for project Promotion of Egadi islands yellowfish tuna
<i>Role</i>	Consultants

<i>Period</i>	<i>October 2006</i>
<i>Activity</i>	Teaching for University of Palermo Faculty of Agrarian Processes and quality products of fisheries in Master course in "Management of quality, certification and safety of agroalimentary".
<i>Role</i>	Teacher

<i>Period</i>	<i>December 2006 June 2006</i>
<i>Activity</i>	For IAMC-CNR DRAPANCOAST”- Development of model for integrated coastal zone management in Trapani (Sicily-Italy) coastal zone.
<i>Role</i>	Analysis of productive activities in the coastal area and its sustainability

<i>Period</i>	<i>January 2005</i>
<i>Activity</i>	for IAMC-CNR sez. di Mazara del Vallo mogeifaco project: development of the general model of coastal zone management for analysis and evaluation of environmental performances
<i>Role</i>	Consultant

<i>Period</i>	<i>Febbraio 2001 Gennaio 2003</i> Provincia Regionale di Trapani
<i>Activity</i>	For Trapani government Project “LIFE NATURA 1999” n° NAT/IT/006270. “Ripristino del biotopo naturale Capo Feto”. Socio economic data collection of tourism and agriculture activities to raising the public awareness.
<i>Role</i>	Expert consultant

<i>Period</i>	<i>September 2000 Dicembre 2000</i>
<i>Activity</i>	at: “Istituto Mediterraneo de Estudios Avanzados (IMEDEA) di Esporles, Mallorca, Spain. Analysis and assessment of fish population data. Use of image analysis for automatic analysis of the fish otoliths
<i>Role</i>	Internship

**Reviwer of Internationl Scientific Journal:**

TITOLO	ISSN	Years	Web reference
<b>Journal of Integrated Coastal Zone Management – Revista de Gestão Costeira Integrada</b>	1646-8872	2014-2015	<a href="http://www.aprh.pt/rgci/referees.html">http://www.aprh.pt/rgci/referees.html</a>
<b>Asian Social Science</b>	1911-2025	2015	<a href="http://www.ccsenet.org/journal/index.php/ass">http://www.ccsenet.org/journal/index.php/ass</a>
<b>Journal of Agricultural Science and Technology</b>	1680-7073	2015	<a href="http://jast.modares.ac.ir/">http://jast.modares.ac.ir/</a>
<b>Environmental Engineering and Management Journal</b>	1843-3707	2015	<a href="http://omicron.ch.tuiasi.ro/EEMJ/">http://omicron.ch.tuiasi.ro/EEMJ/</a>
<b>Natural Resources Forum</b>	477-8947	2014	<a href="http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291477-8947">http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291477-8947</a>
<b>Sustainability</b>	2071-1050	2014-2019	<a href="http://www.mdpi.com/journal/sustainability">http://www.mdpi.com/journal/sustainability</a>
<b>Water</b>	2073-4441	2016-2019	<a href="https://www.mdpi.com/journal/water">https://www.mdpi.com/journal/water</a>
<b>Land</b>	073-445X	2018-2019	<a href="https://www.mdpi.com/journal/land">https://www.mdpi.com/journal/land</a>

**PUBLICATIONS**

1. **Vincenzo Maccarrone**, Francesco Filiciotto, Gaspare Buffa, Vincenzo Di Stefano, Enza Maria Quinci, Giovanni de Vincenzi, Salvatore Mazzola, Giuseppa Buscaino. An invasive species in a protected area of southern Italy: the structure, dynamics and spatial distribution of the crayfish *Procambarus clarkii* (Girard, 1852). In press 2016 Turkish Journal of Fisheries and Aquatic Scinces
2. Filiciotto, F., Vazzana, M., Celi, M., **Maccarrone, V.**, Ceraulo, M., Buffa, G., Arizza, V., de Vincenzi, G., Grammauta, R., Mazzola, S., Buscaino, G. Underwater noise from boats: Measurement of its influence on the behaviour and biochemistry of the common prawn (*Palaemon serratus*, Pennant 1777) (2016) Journal of Experimental Marine Biology and Ecology, 478, pp. 24-33. DOI: 10.1016/j.jembe.2016.01.014
3. Celi, M., Filiciotto, F., Maricchiolo, G., Genovese, L., Quinci, E.M., **Maccarrone, V.**, Mazzola, S., Vazzana, M., Buscaino, G. Vessel noise pollution as a human threat to fish: assessment of the stress response in gilthead sea bream (*Sparus aurata*, Linnaeus 1758) (2016) Fish Physiology and Biochemistry, 42 (2), pp. 631-641. DOI: 10.1007/s10695-015-0165-3
4. Buscaino, G., Gavio, A., Galvan, D., Filiciotto, F., **Maccarrone, V.**, de Vincenzi, G., Mazzola, S., Orensanz, J.M. Acoustic signals and behaviour of *Ovalipes trimaculatus* in the context of reproduction (2015) Aquatic Biology, 24 (1), pp. 61-73. DOI: 10.3354/ab00636

5. **Vincenzo Maccarrone** · Francesco Filiciotto · Giovanni de Vincenzi · Salvatore Mazzola · Giuseppa Buscaino. An Italian proposal on the monitoring of underwater noise: Relationship between the EU Marine Strategy Framework Directive (MSFD) and marine spatial planning directive (MSP). *Ocean & Coastal Management* 07/2015. DOI: 10.1016/j.ocecoaman.2015.07.006
6. A Bellante · **V Maccarrone** · G Buscaino · G Buffa · F Filiciotto · A Traina · M Del Core · S Mazzola · M Sprovieri. Trace element concentrations in red swamp crayfish (*Procambarus clarkii*) and surface sediments in Lake Preola and Gorgi Tondi natural reserve, SW Sicily. *Environmental Monitoring and Assessment* 07/2015; 187(7):4613. DOI: 10.1007/s10661-015-4613-4
7. G. de Vincenzi · F. Filiciotto · **V. Maccarrone** · S. Mazzola · G. Buscaino. Behavioural responses of the European spiny lobster, *Palinurus elephas*(Fabricius, 1787), to conspecific and synthetic sounds. *Crustaceana* 06/2015; 88(5):523-540. DOI: 10.1163/15685403-00003430
8. Elena Papale, Gaspare Buffa, · Francesco Filiciotto, · **Vincenzo Maccarrone**, · Salvatore Mazzola, · Maria Ceraulo, · Cristina Giacomina, · Giuseppa Buscaino. Biphonic calls as signature whistles in a free-ranging bottlenose dolphin. *Bioacoustics* 05/2015; 24(3). DOI:10.1080/09524622.2015.
9. Giuseppa Buscaino · Gaspare Buffa · Francesco Filiciotto · **Vincenzo Maccarrone** · Vincenzo Di Stefano · Maria Ceraulo · Salvatore Mazzola · Giuseppe Alonge. Pulsed signal properties of free-ranging bottlenose dolphins (*Tursiops truncatus*) in the central Mediterranean Sea. *Marine Mammal Science* 12/2014; 31(3).
10. Monica Celi · Francesco Filiciotto · Mirella Vazzana · Vincenzo Arizza · **Vincenzo Maccarrone** · Maria Ceraulo · Salvatore Mazzola · Giuseppa Buscaino. Shipping noise affecting immune responses of European spiny lobster *Palinurus elephas* (Fabricius, 1787). *Canadian Journal of Zoology* 11/2014; 93(2).
11. Francesco Filiciotto · Mirella Vazzana · Monica Celi · **Vincenzo Maccarrone** · Maria Ceraulo · Gaspare Buffa · Vincenzo Di Stefano · Salvatore Mazzola · Giuseppa Buscaino. Behavioural and biochemical stress responses of *Palinurus elephas* after exposure to boat noise pollution in tank. *Marine Pollution Bulletin* 06/2014; 84(1-2).
12. **Vincenzo Maccarrone** · Gaspare Buffa · Vincenzo Di Stefano · Francesco Filiciotto · Salvatore Mazzola · Giuseppa Buscaino. Economic Assessment of Dolphin Depredation Damages and Pinger Use in Artisanal Fisheries in the Archipelago of Egadi Islands (Sicily). *Turkish Journal of Fisheries and Aquatic Sciences* 03/2014; 14(1):173-181.
13. **Maccarrone V.**, Filiciotto F., Buffa G., Mazzola S., Buscaino G. (2014) The ICZM balanced scorecard: a tool for putting integrated coastal zone management into action. *Marine Policy*, 44 321–33
14. Filiciotto F., Giacalone V.M., Fazio F., Buffa G., Piccione G., **Maccarrone V.**, Di Stefano V., Mazzola S., Buscaino G. (2013) Effect of acoustic environment on gilthead sea bream (*Sparus aurata*): sea and onshore aquaculture background noise *Aquaculture*, 414-415, 36-45
15. Francesco Filiciotto, Francesco Fazio, Simona Marafioti, Giuseppa Buscaino, **Vincenzo Maccarrone**, & Caterina Faggio. Assessment of haematological parameters range values using an automatic method in European sea bass (*Dicentrarchus labrax* L.) *NATURA RERUM* - 1 (2012): 29-36 8 (In fase di accreditamento ISI).



16. Filiciotto, F; Buscaino, G; Buffa, G; Bellante, A; **Maccarrone, V**; Mazzola, S. Anaesthetic Qualities of Eugenol and 2-Phenoxyethanol and Their Effect on Some Haematological Parameters in Farmed European Sea Bass (*Dicentrarchus labrax* L.). *JOURNAL OF ANIMAL AND VETERINARY ADVANCES* Volume: 11 Issue: 4 Pages: 494-502 Published: **2012**
17. Buscaino, G; Filiciotto, G; Buffa, G; Di Stefano, V; **Maccarrone, V**; Buscaino, C; Mazzola, S; Alonge, G; D'Angelo. The underwater acoustic activities of the red swamp crayfish *Procambarus clarkii*; *JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA* Volume: 132 Issue: 3 Pages: 1792-1798 September EP **2012** DOI: 10.1121/1.4742744
18. G. Buscaino, F. Filiciotto, M. Gristina, G. Buffa, A. Bellante, **V. Maccarrone**, B. Patti, S. Mazzola. Defensive strategies of European spiny lobster *Palinurus elephas* during predator attack. Vol. 423: 143–154, **2011** doi: 10.3354/MARINE ECOLOGY PROGRESS SERIES 08957.
19. Buscaino G., Filiciotto F., Gristina M., Bellante A., Buffa G., Di Stefano V., **Maccarrone V.**, Tranchida G., Buscaino C., Mazzola S. (**2011**) “Acoustic behaviour of European spiny lobster *Palinurus elephas* (Fabricius, 1787)” *MARINE ECOLOGY PROGRESS SERIES*, DOI 10.3354/meps09404.
20. Curro, P **and Maccarrone, V.** Aquaculture in Sicily: Ecological and Economic Aspects *COASTAL AND MARINE GEOSPATIAL TECHNOLOGIES* Book Series: Coastal Systems and Continental Margins Volume: 13 Pages: 117-127 Published: **2010**. DOI: 10.1007/978-1-4020-9720-1 12
21. **Maccarrone, V.** Determination of the upper boundary of a *Posidonia* meadow. *ECOLOGICAL INFORMATICS* Volume: 5 Issue: 4 Pages: 267-272 JUL **2010**. DOI: 10.1016/j.ecoinf.2009.11.001.

## Technical report

### 2019

1. Farella, G., Borg., M., Bassan, N., Campostrini, P., Coletta, M., Contarini, L., Di Carlo, D., Fadini, A., Fabbri, F., Formosa, S., Garofalo, G., Gissi, E., Gristina, M., Hili, O., Innocenti, A., **Maccarrone, V.**, Manea, E., Maragno, D., Menegon, S., Morelli, M., Musco, F., Quattrocchi, F., Sarretta, A., Varone, E., Vella, A., Venier, C., Barbanti, A. 2018. Case Study #4 “Strait of Sicily -Malta”. EU Project Grant No.: EASME/EMFF/2015/1.2.1.3/02/SI2.742101. Supporting Implementation of Maritime Spatial Planning in the Western Mediterranean region (SIMWESTMED). CORILA. 138 pp.

### 2016

2. Cuttitta, Angela, Musco Marianna, Armeri Grazia Maria, Carelli, Maria Luisa, Vinciguerra Viviana Graci Roberta, **Maccarrone Vincenzo**, Bennici Carmelo Daniele, Biondo Girolama, Maneiro Isabel, Masullo Tiziana, Monastero Calogera, De Luca Biagio, Patti Carlo, Torri, Marco, Vaccaro, Francesca, Bulfamante Francesca, Giorgi Susanna, Titone Gabriella, Spagnolo Cecilia, Cangemi Giuseppe, Russo Stefania, Fasola Marco (2016) *Alla Scoperta della Biodiversità. Documentation.* IAMC-CNR, Capo Granitola. (Unpublished)

3. Di Stefano Vincenzo; Filiciotto Francesco; Buscaino Giuseppa; Mazzola Salvatore; **Maccarrone Vincenzo** (2016). Attività propedeutica allo studio della struttura e dinamica della popolazione di *Procambarus clarkii* (Girald,1852) all'interno della RNI Lago Preola e Gorghi Tondi. Technical Report. IAMC - CNR, Capo Granitola. (Unpublished)
4. Di Stefano Vincenzo; Filiciotto Francesco; Buscaino Giuseppa; Mazzola, Salvatore; **Maccarrone, Vincenzo**. (2016) Studio di una Boa Luminosa interattiva per la riduzione dei costi delle attività di pesca a circuizione. Technical Report. IAMC-CNR, Capo Granitola. (Unpublished)
5. Di Stefano Vincenzo; **Maccarrone Vincenzo**; Buscaino Giuseppa; Mazzola Salvatore; Filiciotto Francesco. (2016) Tank-based experiment and audio-video set-up to assess the impact of boat noise pollution on the common prawn (*Palaemon serratus*). Technical Report. IAMC - CNR, Capo Granitola.
6. Di Stefano Vincenzo; **Maccarrone Vincenzo** Buscaino Giuseppa; Mazzola Salvatore; Filiciotto Francesco. (2016) Experimental procedure for the evaluation of behaviour and biochemical stress of *Palinurus elephas* exposed to boat noise pollution. Technical Report. IAMC-CNR, Capo Granitola.

## 2013

7. Buscaino Giuseppa; Filiciotto Francesco; Vincenzo Maccarrone; Vincenzo Di Stefano; Salvatore, Mazzola. (2013) Bioacustica marina del Kongsfjorden (Svalbard) Analisi dati acustici riferiti al periodo 10 Set. - 2 Ott. 2013. Technical Report. IAMC-CNR BioacousticsLab, Capo Granitola. (Unpublished)
8. Filiciotto, Francesco; Di Stefano Vincenzo; Buffa Gaspare; Maccarrone Vincenzo; Mazzola Salvatore; Buscaino Giuseppa. (2013) Effects of offshore and onshore aquaculture ambient noise on *Sparus aurata* juveniles. Technical Report. IAMC, Capo Granitola.

## 2012

9. Di Stefano, Vincenzo; Bonsignore, Maria; Maccarrone, Vincenzo; Oliveri, Elvira; Salvagio Manta, Daniela; Sprovieri, Mario. Rada di Augusta (Siracusa): relazione tecnica della camera bentica e dei campionamenti sui flussi di mercurio nell'interfaccia acqua sedimento 2012. Technical Report. IAMC-CNR, Capo Granitola. (Unpublished).

## Books

### 2010

1. Filiciotto F., Buscaino G., Buffa G., Bellante A., Maccarrone V. (2011) "Use of Eugenol and 2-Phenoxyethanol as Pre Treatment in the Stunning/Killing Procedure of Farmed European Sea Bass (*Dicentrarchus labrax* L)" Volume Mare 2010 CNR
2. G. Buffa, G. Buscaino, F. Filiciotto, A. Bellante, V. Maccarrone, W. Basilone, A. Cuttitta, M. Sprovieri, B. Patti, S. Mazzola "High efficiency feeding strategy of *Tursiops truncatus* during fishing gear depredation" Submitted to Volume Mare 2010 CNR

3. Vincenzo Maccarrone,, Giuseppa Buscaino, Gaspare Buffa, Antonio Bellante, Francesco Filiciotto, Sergio Vitale Pietro Labruzzo, Carmelo Buscaino, Giorgio Tranchida, Sprovieri Mario, Salvatore Mazzola. Analysis of Fuel Cost/Catch prices ratio in the artisanal fisheries gillnet in the Egadi Archipelago (Sicily) Submitted to Volume Clima 2010 CNR .
4. Vincenzo Maccarrone, Sistemi informativi Geografici (GIS). In “Integrazione di competenze a supporto dei sistemi di gestione costiera. Il caso Fish-Gate: Progetto Integrato di Gestione delle Risorse”. Ed. Franco Angeli ISBN-9788856822052 (2010)
5. Vincenzo Maccarrone The Use of Aerial Photography in GIS Mapping of Seagrass Meadows. NovaPublisher 2010. © 2011 Nova Science Publishers, Inc. ISBN: 978-1-61209-323-9.
6. Vincenzo Maccarrone, Giuseppa Buscaino, Francesco Filiciotto, Gaspare Buffa, Antonio Bellante, Mario Sprovieri, Angelo Bonanno, Gualtiero Basilone, Angela Cuttitta, Bernardo Patti, Salvatore Mazzola. The Use of Aerial Photography in GIS Mapping of Seagrass Meadows. In: Seagrass: Ecology, Uses and Threats ISBN 978-1-61761-987-8 Editor: Robert S. Pirog. © 2011 Nova Science Publishers, Inc.

## 2005

7. Pernice G., Maccarrone V. et.al. Elaborazione di un modello di gestione integrata della fascia costiera mediante GIS e reti neurali attraverso la raccolta ed analisi di dati ambientali ed alieutici dell'area costiera che si estende dallo Stagnone di Marsala a Marinella di Selinunte. N.T.R.-I.R.M.A. – Special Publication n. 9 - 2005 IAMC-CNR sezione di Mazara del Vallo, ISSN 1120 1894

## 2008

8. Buscaino G., Maccarrone V., Messina C., Genovese S., Buffa G., Bellante A., Di Stefano V., Cuttitta A., Patti B., Mazzola S. (2007). Valorizzazione del tonno rosso delle Isole Egadi. Special Publication n. 70- 2008 IAMC-CNR – U.O.D. di Mazara del Vallo, ISSN 1120 1894.
9. Cuttitta A., Adamo A., Fiorelli A., Vaccaro F., Lipani M., Maccarrone V., Basilone W., Patti D., Bonanno A., Buscaino G., Mazzola S. . Il Pescato di Palermo “Iniziativa di Promozione della produzione di pesce azzurro, nel comune di Palermo, ottenuta con metodi rispettosi dell'ecosistema marino”. Officine Grafiche Riunite, Maggio 2008.

## 2007

10. Vincenzo Maccarrone. Progetto Drepancoast “Elaborazione di un modello di gestione integrata della zona costiera della Provincia di Trapani” pp. 65-96 e 175-183. N.T.R.- I.R.M.A. – Special Publication n. 11- 2007 IAMC-CNR – U.O.D. di Mazara del Vallo, ISSN 1120 1894

## PROCEEDINGS

### 2015

1. Giuseppe A. de Lucia · Andrea Camedda · Giorgio Massaro · Stefania Coppa · Stefano Marra · Vincenzo Maccarrone · Francesco Filiciotto · Giusy Buscaino · Maria Francesca Frau · Francesca Cinti · Fabrizio Atzori · Pierpaolo Congiatu · Laura Angius. Accidental records of Caretta caretta nests in the two main italian island (sardinia and sicily) in the last years: can we still talk about occasional nesting areas ? 35th Symposium on Sea Turtle Biology and Conservation; 04/2015

### 2011

2. Buscaino G., Bellante A., Buffa G., Filiciotto F., **Maccarrone V.**, Di Stefano V., Tranchida G., Mazzola S. (2011) "Depredation of striped dolphin on squid fishery and behavioural responses to interactive pinger" Journal of the Acoustical Society of America. Vol. 129. Program Abstract of the 161st Meeting of the Acoustical Society of America. ISSN 0001-4966
3. Vincenzo Maccarrone, Francesco Filiciotto, Gaspare Buffa, Antonio Bellante, Di Stefano Vincenzo, Giorgio Tranchida, Carmelo Buscaino, Salvatore Mazzola and Giuseppa Buscaino. Some consideration about the management and economic aspect on the pinger use for mitigation the depredation phenomena in an MPA Mediterranean area. Journal of the Acoustical Society of America. Vol. 129, 2968. Program Abstract of the 161st Meeting of the Acoustical Society of America. ISSN 0001-4966
4. P. L'Abruzzo; G. Buascaino; F. Filiciotto; G. Buffa; V. Maccarrone; V. Di Stefano. Influenza delle onde acustiche sulla crescita di microalghe (*Scenedesmus obliquus*) in fotobioreattori per uso industriale. Graduate School "Ca' Foscari" - 30 novembre 2011 Auditorium S. Margherita, Venezia.

## 2009

5. Buffa G., Buscaino G., Bellante A., Filiciotto F., Maccarrone V., Adamo A., Cuttitta A., Mazzola S. (2009) "The Scientific Diffusion in primary schools. A case of dissemination of knowledge on the resources of the marine coastal environment". VII FORUM GEOITALIA, Rimini 9-11 settembre 2009.

## 2007

6. Vincenzo Maccarrone & Vincenzo Pernice. Indici di sostenibilità della pesca siciliana: un approccio circolare. Atti congresso "Grass Meeting" 14-15-16 febbraio 2007 Palermo.
7. Vincenzo Maccarrone. Strumenti gestionali integrati per il supporto decisionale delle attività di maricoltura. Primo Forum IAMC-CNR 6-9 Maggio 2007 Taormina
8. Grazia Calabrò, Vincenzo Maccarrone. XXIII Congresso Nazionale delle Scienze Merceologiche Qualità, ambiente e valorizzazione delle risorse territoriali Il marchio Europeo di qualità ecologica per la pesca. 26-27-28 Settembre 2007 Terracina (Italia). Vol. 2, pag. 333-338- ISBN 978-88-902688-4-7; Frosinone: Sistema Stampa srl (2008).
9. Vincenzo Maccarrone. La Gestione integrata della costa. La promozione della pesca e dell'acquacoltura sostenibili nel rispetto dell'ambiente, della economia, della qualità dei prodotti. L'acquacoltura in Sicilia. Testi Dottorato di Ricerca in Scienze Merceologiche Ciclo XIX Università di Bari. Settore Scientifico Disciplinare SECS-P13. Depositata presso la Biblioteca Nazionale Centrale di Roma. (2007)

## 2006

10. Vincenzo Maccarrone. Economia e Cultura della Pesca in Sicilia. pp44-54 pp59-70 Edas Libri, 2006, ISBN 88-7820-248-7
11. Grazia Calabrò, Vincenzo Maccarrone. CERTIFICAZIONI E MARCHI DI QUALITÀ ECOLOGICA PER IL SETTORE DELLA PESCA: ANALISI E PROSPETTIVE. Pesca. Atti XXII Congresso Nazionale di Merceologia 2-4 Marzo 2006, Roma (Italia).

## 2005

12. Paolina Curro , Vincenzo Maccarrone. Aquaculture In Sicily: Ecological And Economic Aspects. Atti della conferenza: CoastGis 2005 “Defining and Building a Marine and Coastal Spatial Data Infrastructure” 21st-23rd July 2005 Aberdeen, Scotland, UK. pp.60-71
13. Grazia Calabrò, Paolina Currò and, Vincenzo Maccarrone. The sustainable balanced scorecard for the integrated management of the fish farming in Sicily. Atti della conferenza: MedCoast 2005 “The Seventh International Conference on The Mediterranean Coastal Environment” 25-29 October 2005, Kusadasi, Turkey. ISBN 975-00526-2-5 (vol.2)
14. G. Pernice, I. Patti, S. Vitabile, V. Maccarrone, R. Ialuna, G. La Bella, A. Titone, V. Pernice, P. Gancitano, R. Micaliazzì. MOGEIFACO: UN MODELLO “ESPERTO” PER LA GESTIONE INTEGRATA DELLA FASCIA COSTIERA. Atti 9<sup>a</sup> Conferenza Nazionale Federazione delle Associazioni Scientifiche per le Informazioni Territoriali e Ambientali (ASITA) 15-18 novembre 2005“Le ciminiere”, Catania (Italia).

## 2004

15. Vincenzo Maccarrone (2004) Sicilian ICZM Post-Graduates School. Delivering Sustainable Coast Connecting Science and Policy. Littoral 2004 Aberdeen, Scotland, UK September 2004. Proceeding Volume 2, 747-748. Cambridge Publications ISBN: 0-9540081-0-4
16. Vincenzo Maccarrone (2004) Life 4 Capo Feto. Delivering Sustainable Coast Connecting Science and Policy. Littoral 2004 Aberdeen, Scotland, UK September 2004. Proceeding Volume 2, 745-746. Cambridge Publications ISBN: 0-9540081-0-4
17. P. Currò, V. Maccarrone (2004)La Pesca nel Mediterraneo nell’ambito della Politica Comune della Pesca. Atti XXI Congresso Nazionale di Merceologia 22-24 settembre 2004, Foggia (Italia).

## 2003

18. ITALIAN LAGOON OBSERVATIONAL NETWORK- LaguNet- A Network in support of the IGBP core programme: Land Ocean Interaction in the Coastal Zone (LOICZ) and a contribution to the implementation of the Water Framework Directive with the collaboration of Institute for the Environment and Sustainability Joint Research Centre. Redazione della scheda: Capo Feto wetland – Italy. Pubblicato dal Joint research centre, European Commission. (2003)

## 2002

19. G. Pernice, F. Placenti, A. Spina, I. Patti, V. Maccarrone (2002). – Capo Feto: Analisi Di Lungo Periodo (1836-2002) delle Modificazioni di una zona umida in un’area di Transizione. Atti. del Convegno Nazionale Delle Scienze Del Mare 27 Al 29 Novembre 2002 Bari (Italia).
20. P. Viaroli et. Al (2002). - Trasporto Dei Nutrienti Negli Ambienti Acquaticidi Transizione Delle Coste Italiane:Valutazione Dei Flussi E Delle Funzioni Dell’ecosistema. Atti Iii Convegno Nazionale Delle Scienze Del Mare 27-29 Novembre 2002, Bari (Italia).
21. Giuseppe Pernice, Ignazio Patti, Vincenzo Maccarrone, Francesca Apollo. LAND-OCEAN INTERACTIONS IN THE COASTAL ZONE (LOICZ) Core Project of the International Geosphere-Biosphere Programme: A Study of Global Change (IGBP) and the International Human Dimensions Programme on Global Environmental Change (IHDP) -Nutrient fluxes in transitional zones of the Italian coast- Capo Feto marshland, south-west Sicily. Published in the Netherlands, 2002 by: LOICZ International Project Office Royal Netherlands Institute for Sea Research.