

Curriculum vitae

Alessandra Savini

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Position: Assistant professor, Physical Geography and Geomorphology

E-mail: alessandra.savini@unimib.it

Place of residence: Via Europa 16, 23886 – Colle Brianza (LC), Italy

Vital statistics: Born in Cantù (Italy - CO) on 10/11/'72

Citizenship: Italian

EDUCATION

- 2004 PhD in Geological Sciences and Geotechnologies, Milano-Bicocca University, Italy. PhD Thesis: "Analysis of Marine Acoustic Geophysical data and their management in GIS".
 - 2001 Master in Applied Geophysics. Institute of geophysics and marine environment. La Spezia (vote: excellent).
 - 1999 Academic Degree in Natural Sciences. Thesis title: "Monitoring coastal environment using seafloor mapping techniques (western Sicily)". Milano University
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RESEARCH INTERESTS

Alessandra Savini is a marine geoscientist with expertise in seafloor and benthic habitat mapping along the continental margin and oceanic platforms. Research activity is at the interface of (submarine) geomorphology and (benthic) ecology and deals with:

- Seafloor imaging and mapping using geophysical data (bathymetry, backscattering and seismic) in order to investigate sedimentation processes and interaction with benthic habitats, with a particular focus on temperate Mediterranean bioconstructions (coralligenous and cold-water coral) and tropical coral-reefs (Indian ocean).
 - Geo-acoustic seabed characterization and geo-spatial analysis methods for benthic habitat mapping and characterization.
 - Geosphere – biosphere coupling, with emphasis in cold-water carbonate bioconstructions and fluid escape seafloor features and associated benthic communities.
 - Offshore geo-hazard assessment related to mass wasting processes.
 - Applied marine geomorphology.
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EXPERIENCE

WORK EXPERIENCE

December 2008 – present:

Assistant professor (Physical Geography and Geomorphology) at the University of Milano-Bicocca (School of Sciences, Dept. of Earth and Environmental Sciences)

Present-day teaching duties:

- Introduction to Marine Physical Geography (6CFU) and Applied Geomorphology and Habitats (6CFU) - Master Course in Marine Sciences.
- Physical oceanography and coastal geomorphology - Master Course in "Marine Sciences for Sustainable Development" – MaRHE Centre (island of Magoodhoo, Faafu Atoll - Republic of Maldives).

December 2006 – December 2008

Researcher - CoNISMa (national interuniversity consortium for marine sciences) – Local Research Unit of Milano-Bicocca University. Seafloor and benthic habitat mapping.

July 2006 – August 2006

Principle Marine Geophysicist/Geologist for RESON MEDITERRANEAN (BO – Italy)

March 2004 – June 2006

Post-doc position - CoNISMa (national interuniversity consortium for marine sciences) – Local Research Unit of Milano-Bicocca University. Seafloor and benthic habitat mapping

January 2004 – February 2004

Principle Marine Geophysicist / Geologist for RESON MEDITERRANEAN (BO – Italy)

July 1999 – June 2000

Assistant surveyor. NAUTILUS s.c.r.l (VV – Italy)

June 1999

Graduate research assistant. CoNISMa (national interuniversity consortium for marine sciences) – Local Research Unit of Milano-Bicocca University.

TEACHING EXPERIENCE2008 - 2016

Lectureship in marine geomorphology for the Master Course in Geological Sciences and Geotechnologies - Milano-Bicocca University, School of Sciences, Dept. Of Earth and Environmental Sciences.

October 2011

Lecturer in the disciplines of physical oceanography and coastal geomorphology (44 hours) for the Master Course in "Marine Sciences for Sustainable Development" held at the MaRHE Center (Marine Research and High Education Center) on the island of Magoodhoo in Faafu Atoll (Republic of Maldives). The Master's course was co-funded by MIUR (Italian Ministry for Research and University) and was organized by Milano-Bicocca University in collaboration with the Republic of Maldives.

2007/2008 Academic Year

Adjunct professor: Laboratory of marine coastal geology (5 Credits) for the Master Course in Geological Sciences and Geotechnologies - University of Milano-Bicocca, Faculty of Mathematical, Physical and Natural Sciences, Dept. Of Geological Sciences and Geotechnologies.

2007/2008 Academic Year

Adjunct professor: marine geology II (5 Credits) for Master Course in Geological Sciences and Geotechnologies - University of Milano-Bicocca, Faculty of Mathematical, Physical and Natural Sciences, Dept. Of Geological Sciences and Geotechnologies.

2006/2007 and 2007/2008 Academic Years

Instructor (frontal lectures) in physical processes in marine environment, for postgraduate students of the 1st level Master "Scientific informer of Nature (mediterranean and tropical environments)", organized by Milano-Bicocca University.

2005/2006 Academic Year

Adjunct professor: marine geology II (5 credits), for Master Course in Geological Sciences and Geotechnologies - University of Milano-Bicocca, Faculty of Mathematical, Physical and Natural Sciences, Dept. Of Geological Sciences and Geotechnologies.

2004/2005

Instructor in "seafloor mapping techniques" (120 hours of frontal lectures and 40 hours of practical classes on board the R/V Universitatis vessel), for postgraduate students of the 1st level Master "identification and experimental in situ treatment of contaminated marine sediments", founded by MIUR and organized by CoNISMa.

2004:

Instructor in "seafloor mapping techniques" (16 hours of frontal lectures and 16 hours of practical classes on board the R/V *Universitatis*) for the "postgraduate training programme on marine survey techniques and methods applied to underwater archaeology", organized by CoNISMa and Marenostrum foundation and under the sponsorship of "Archelogia viva".

INVOLVEMENT IN (SELECTED) INTERNATIONAL AND NATIONAL RESEARCH PROJECTS

MARINE STRATEGY (2012 – PRESENT) National activity of implementation of the Marine Strategy Framework Directive of the EU, coordinated by CoNISMa and ISPRA. Responsible for data integration and development of monitoring strategies (benthic habitats and biodiversity).

RITMARE The Italian research for the sea – funded by MIUR: the Italian Ministry of Education, University and Research, leading national marine research project for the period 2012-2016. Sub-project: Planning of the Deep Marine Environment and the Open Sea (habitat mapping) – Responsible for the research activities of the local research unit of Milano-Bicocca University).

VII° EU Framework program – COCONET (Towards COast to COast NETworks of marine protected areas (from the shore to the high and deep sea, coupled with sea-based wind energy potential), 2011 – 2015. Collaborative project - Grant agreement no: 287844. Coordinator: Prof. F. Boero. Co-leader of task 1 in WP2 (Habitat mapping: state of knowledge, data integration and scenarios of protection).

ESF Research Networking Program – COCARDE – Cold-water Carbonate Reservoir system in Deep Environment. <http://www.cocarde.eu>. Participant.

BIOMAP – BIOcostruzioni MARine in Puglia (marine bioconstruction along the Apulian coast) 2011-2013. www.biomapping.it. Funded by Puglia region. Project responsible for seafloor data acquisition and map production.

VII° EU Framework program – CORALFISH (Assessment of the interaction between corals, fish and fisheries, in order to develop monitoring and predictive modeling tools for ecosystem based management in the deep waters of Europe and beyond) 2008-2012 <http://eu-fp7-coralfish.net/>. Member of the project steering committee and leader of WP1 "regional cold water coral setting".

MAGIC (Marine Geohazard along the Italian Coasts). 2008-2013, www.magicproject.it. Funded by National Civil Protection. Member of the project technical committee (multibeam data quality control and evaluation) and scientific responsible for the compilation of two maps (scale 1:50.000) of marine geohazards (36 – Siderno and 47 – Santa Maria di Leuca).

VI° Framework Program – HERMES (Hotspot Ecosystem Research on the Margins of European Seas), 2005 - 2009. Participant

RiskNat project – Developed within the framework of a cooperation project on seismic risk for the production of marine geological maps for two sectors of the Ligurian sea: "Ventimiglia – Dolceacqua" and "Imperia". March 2010. On-board chief scientist.

LANDSCAPES OF WAR – Improving Public understanding through the compilation and inventory of 20th century conflict heritage of the European Union, 2006-2008 – project co-founded by the EU in the framework of the Cultura 2000 programme. Participant

CISM project - International centre for marine sciences in Albania, 2006 – 2008. InterregIII Italia-Albania (www.cismalbania.it) - founded by ARPA Puglia - Involved in Task B1: Geology and sedimentology.

V° EU Framework Program – BIODEEP (Biotechnologies from the Deep), 2001-2005. Technical secretariat

PRIN2006-2008 MESC project (Mud Volcanoes ecosystem study – Sicily Channel) Founded by MIUR. Co-project coordinator.

FIRB2003/2005 Archaeo – Reconstruction and valorization of archaeological sites in coastal environment using innovative non-invasive techniques – funded by MIUR. Participant

FIRB2004-2006 APLABES – White coral building in the northern Ionian sea – Apulian plateau bank. Founded by MIUR. Co-project coordinator.

MIUR programme: "identification and experimental in situ treatment of contaminated marine sediments", 2004-2005. Seafloor mapping data acquisition and teaching activities for postgraduate students.

MIUR programme for young researchers (2002): "Atlas of side scan sonar sonographs: the acoustic signatures of the different geomorphological features that characterize the Mediterranean continental shelf". Project coordinator.

RIPO – Review of habitat maps of the distribution of *Posidonia oceanica* meadows along the coastline of Liguria, Toscana, Lazio, Basilicata and Puglia. March 2002 – February 2003. Responsible of data implementation in GIS environment and quality control.

OCEANOGRAPHIC EXPEDITIONS

BIOMAP II (16 – 27 MAY 2012, R/V MINERVAUno). Southern Adriatic and northern Ionian sea. Chief Scientist. Ship-time funded by Biomap project

BIOMAP I (15 – 23 MARCH 2012, R/V MINERVAUno). Southern Adriatic sea. Chief Scientist. Ship-time funded by Biomap project

CORAL-LANDER (1-4 NOVEMBER, 2010, R/V MINERVAUno). Northern Ionian sea. Assistant for benthic lander deployment at the Sant Maria di Leuca cold-water coral province. Ship-time funded by EU-FP7 CoralFISH project

MAGIC-CORALFISH (7-24 APRIL 2010, R/V UNIVERSITATIS). Northern Ionian sea. Chief scientist. Ship-time funded by EU-FP7 CoralFISH project and MAGIC project.

RISK NAT OCEANOGRAPHIC CRUISE (6-15 MARCH 2010, R/V UNIVERSITATIS). Ligurian sea. Chief scientist. Ship-time funded by RISK NAT project.

MAGIC-UNITS02/10 2010 (24 MARCH – 4 MARCH 2010, R/V UNIVERSITATIS). Ligurian sea. Co-Chief scientist. Ship-time funded by MAGIC project.

MAGIC-UNICA08/09 2009 (1-10 JULY, 2009, R/V UNIVERSITATIS). Sardinia channel. Co-Chief scientist. Ship-time funded by MAGIC project.

MAGIC-UNIMI-UNITS07/09 2009 (JUNE, 2009, R/V UNIVERSITATIS). North-western Ionian sea. Chief scientist. Ship-time funded by MAGIC project.

BoBGEO 2009 (OCTOBER, 2009, R/V POURQUOI PAS?). Bay of Biscay, North-eastern Atlantic sea. Responsible of acoustic data acquisition. Ship-time funded by IFREMER and CoralFISH project.

CETRARO (13-16 DECEMBER, 2008, R/V UNIVERSITATIS): Exploration survey for searching a shipwreck offshore Cetraro (southern Calabria). Southern Tyrrhenian Sea. Chief scientist. Ship-time funded by Calabrian region.

CISM II (8 – 19 JANUARY 2008, R/V UNIVERSITATIS), Southern Adriatic Sea and Valona gulf. Chief scientist. Ship-time funded by CISM project (Interreg Italia-Albania).

MEDECO (11-18 OCTOBER, 2007, R/V POURQUOI PAS?). Northern Ionian sea. Involved to support the planning and the coordination of ROV Victor6000 inspections to explore, perform high resolution multibeam mapping and sample two coral mounds within the SML cold water coral province. Ship-time funded by IFREMER and EU-FP7 HERMES project.

LANDSCAPE OF WAR (30 JULY – 02 AUGUST, 2007, R/V UNIVERSITATIS). Northern Ionian sea. Chief-scientist to map and characterize a number of shipwrecks from the II world-war off southern Calabria. Ship-time funded by "Landscape of war" project.

MESC2007bis (23-26 JULY, 2007, R/V UNIVERSITATIS). Sicily channel. Chief-scientist. Ship-time funded by MIUR (MESC project).

CISM I (21-26 MAY 2007, R/V UNIVERSITATIS), Southern Adriatic Sea and Valona gulf. Chief scientist. Ship-time funded by CISM project (Interreg Italia-Albania).

MESC2007 (26 FEBRUARY – 5 MARCH, 2007, R/V UNIVERSITATIS). Sicily channel. Chief-scientist. Ship-time funded by MIUR (MESC project).

ITALB (01-14 NOVEMBER 2006, R/V UNIVERSITATIS). Route survey (pipeline) from Durazzo to Brindisi, Southern Adriatic Sea. Chief scientist. Ship-time funded by ILF (private company).

M70/1 (23 SEPTEMBER – 18 OCTOBER 2006, R/V METEOR). Western and eastern Mediterranean sea. Involved to acquire seafloor mapping data (multibeam and SBP profiles) at different sites in the Mediterranean sea, as a support for ROV QUEST4000 surveys that were performed to explore hotspots biodiversity ecosystems. Ship-time funded by MARUM and EU-FP7 HERMES project.

CORSARO (APRIL 2006, R/V URANIA). Western and Eastern Mediterranean sea. Involved in seafloor mapping data acquisition at different sites, where living and dead cold-water coral occurrences were documented. Ship-time funded by CNR and EU-FP7 HERMES project.

MESC2006 (26-30 MAY, 2006, R/V UNIVERSITATIS). Sicily channel. Chief-scientist. Ship-time funded by MIUR (MESC project).

GAVIS (MARCH, 2006, R/V UNIVERSITATIS). Exploration survey on the virgin stock and on the habitat of the violet prawn (*Haristeus antennatus*) in the northern Ionian Sea. Responsible of acoustic data acquisition. Ship-time funded by ARPA, Puglia region (GAVIS project).

CIESM-SUBII (1-6 DECEMBER, 2005, R/V URANIA). Tyrrhenian sea. Responsible of navigation and acoustic data acquisition. Ship-time funded by CIESM (the Mediterranean Marine Science Network),

APLABESIII (SEPTEMBER-OCTOBER 2005, R/V UNIVERSITATIS). Northern Ionian Sea. Responsible of navigation and acoustic data acquisition. Ship-time funded by MIUR (FIRB program APLABES).

GECO (AUGUST 2005, R/V URANIA). Eastern Mediterranean Sea. Involved in seafloor mapping data acquisition at different sites in the eastern Mediterranean Sea (off Crete, Karpatos and Rhodes), to explore fossil assemblages of cold water corals. Ship-time funded by CNR and EU-FP7 HERMES project.

ATR72 OCEANOGRAPHIC CRUISE (14-20 AUGUST 2005, R/V UNIVERSITATIS). Southern Tyrrhenian sea. Exploration survey aimed at searching the airplane ATR72, which sunk off Palermo at -1400m of water depth on August 6, 2005. The survey was planned and organized by CoNISMa in collaboration with the Italian Military Navy. Chief-scientist. Ship-time funded by Italian Military Navy.

CIESM-SUBI (JULY, 2005, R/V UNIVERSITATIS). Tyrrhenian sea. Responsible of navigation and acoustic data acquisition. Ship-time funded by CIESM (the Mediterranean Marine Science Network),

ALBENGA_B (14-15 JULY 2005, R/V UNIVERSITATIS). Ligurian Sea, Identification and characterization of an ancient roman shipwreck (July 2005). Chief scientist. Ship-time funded by the Department of National heritage of the Ligurian region.

APLABESII (MAY 2005, R/V UNIVERSITATIS). Northern Ionian Sea. Co-chief scientist, Ship-time funded by MIUR (FIRB program APLABES).

PATTI (JULY 2004, R/V UNIVERSITATIS). Southern Tyrrhenian Sea. Chief scientist and teaching activities for Master students, Ship-time funded by MIUR (MIUR programme: "identification and experimental in situ treatment of contaminated marine sediments").

APLABES I (JULY 2004, R/V UNIVERSITATIS). Northern Ionian Sea. Co-chief scientist, Ship-time funded by MIUR (FIRB program APLABES).

CILENTO (APRIL 2004, R/V UNIVERSITATIS). South-eastern Tyrrhenian Sea. Chief scientist, Ship-time funded by the "Authority of the left side Sele river basin, within the framework of the project "Sedimentological and stratigraphic study of the upper Pleistocene – Holocene deposits along the continental shelf between Acropoli and Sapri (south-eastern Tyrrhenian sea)".

SALERNO (DECEMBER 2003, R/V UNIVERSITATIS). South-eastern Tyrrhenian Sea. Chief scientist, Ship-time funded by the "Administration Authority of Salerno", within the framework of the project " Marine geophysical investigation aimed at searching relict sand deposits in the Salerno gulf (south-eastern Tyrrhenian sea)".

MADDALENA (APRIL 2003, R/V UNIVERSITATIS). Western Ionian Sea. Chief scientist, Ship-time funded by CoNISMa, within the project "Environmental assessment and characterization of the Maddalena peninsula (eastern Sicily), to establishing Marine Protected Area zonation".

COR2 (AUGUST 2002, R/V URANIA). Western and Eastern Mediterranean Sea. Involved in seafloor mapping data acquisition at different sites, to explore fossil and living assemblages of cold water corals. Ship-time funded by CNR.

SARDEGNA (1 JULY – 12 SEPTEMBER 2000, R/V COOPERAUT FRANCA). Western Mediterranean. Responsible of seafloor mapping data acquisition on the Continental shelf of Sardinian margin, in order to map *Posidonia oceanica* meadows. Ship-time funded by the Ministry of Environment.

WORKSHOP ORGANIZATION AND OTHER INITIATIVES

Member of the Scientific Committee of MarHE (Marine Research and High Education) center (www.marhe.unimib.it), Milano-Bicocca outpost at Magoodhoo island, Faafu atoll, Republic of Maldives.

Co-Convener of the session "Submarine Geomorphology – GM11.1" at the 2018 EGU General Assembly, Vienna, Austria, 8-13 April, 2018.

Co-Convener of the session "Submarine Geomorphology - S30" at the 9th International Congress of Geomorphology, New Delhi, India, 6-11 November, 2017.

Convener of the special session "Acquisition, processing and interpretation of marine geology data" at the METROSEA – IMEKO TC19 Workshop on metrology for the sea, Naples, Italy, 11-13 October, 2017.

Co-Convener of the session "Submarine Geomorphology – GM12.1" at the 2016 EGU General Assembly, Vienna, Austria, 17-22 April, 2016.

Convener of the National workshop "COMPARAZIONE DI FORME E PROCESSI IN DIVERSI CONTESTI GEOLOGICI DEI FOGLI MAGIC" (FORMS AND PROCESSES IN DIFFERENT GEOLOGICAL SETTINGS FROM THE "MAGIC" MAPS OF GEO-HAZARDS). Rome, ISPRA, 14-15 December, 2011.

Convener of the CoralFISH project workshop on "WP1 - Regional Cold-Water Coral settings". 30th – 31st January, 2013. Paris, IFREMER head office.

SUPERVISION

Supervisor of:

- 4 Bachelor degree thesis in Geological Sciences and Geotechnologies at Milano-Bicocca University
- 4 Master degree thesis in geological Sciences and Geotechnologies at Milano-bicocca University
- 1 (on-going) PhD in Marine Sciences at Milano-Bicocca University
- 1 PhD in Geological Sciences and Geotechnologies at Milano-Bicocca University
- 1 Post-doc Fellowship in Geological Sciences and Geotechnologies at Milano-Bicocca University
- 2 post-graduate project collaborations funded by CoNISMa (National InterUniversity Consortium for Marine Sciences), within the framework of MAGIC and EU FP7 CoralFish projects.
- 3 post-doc positions funded by CoNISMa (National InterUniversity Consortium for Marine Sciences), within the framework of RITMARE, EU FP7 CoralFish and EU FP7 CoCoNET projects.

Co-supervisor of:

- more than 30 degree thesis in Natural Sciences at Milano University, in Geological Sciences and Geotechnologies at Milano-Bicocca University and in Geological Sciences at Milano University
- 2 PhD thesis in Biological Sciences at Bari University.

EVALUATOR AND REFEREE

External evaluator for CNR shiptime (R/V Urania) requests

Referee for the following journals: Marine Geology, Journal of Continental Shelf Research, Natural Hazards and Earth System Sciences, Deep-sea Research, Geodiversitas, Journal of Coastal Research, Geological Society of London (Spec. Pub.), Geosciences, Palaeogeography Palaeoclimatology Palaeoecology.

TECHNICAL SKILLS

CARTHOGRAPHY: Creation of thematic maps for the marine environment (bathymetric maps, morphobathymetric maps, shaded relief maps, backscattering maps, slope maps, sedimentological maps, biocenotic maps, habitat maps).

SEDIMENTOLOGY: At sea operation to collect sediment samples by grab and gravity/box core. Core logs and sediment descriptions.

Applied OCEANOGRAPHY: Navigation and positioning. Coordination of research activities carried out on board oceanographic vessels, for geomorphological, sedimentological and multidisciplinary purposes.

EMPLOYED GEOPHYSICAL DEVICES:

MultiBeam echosounders: Reson Seabat (8111, 8125, 8160, 7111, 7125, 7150); Simrad EM710-EM120; SeaBeam 1180.

Single Beam echosounders: Simrad EA400 and Simrad EK60, ATLAS KRUPP DESO 20 and. DESO 25 and ELAC LAZ47100.

Side scan Sonar systems: SSS/SBP Datasonic-Benthos SIS 1000; Klein3000; Edge Tech EG&G 260; Edge Tech EG&G 4200.

Seismic: Sub-Bottom Profiler systems: GeoAcoustics GeoChirp II; Datasonic ChirpII; Sparker: multi-tip Sparker Applied GeoAcoustic; AirGun: MINIGUN – Sleeve Gun 10

COMPUTER SKILLS AND COMPETENCES

SOFTWARE PACKAGES: Thales PDS 2000; CARIS 7.0; Nav Pro; Triton Elcis International (TEI) suite (Isis - DelphMap – DelphSeismic Plus); SwanPro; SB-Interpreter; Golden Software Surfer; RSI - Envi 4.0; Autodesk AutoCAD 2007 and autoCAD Raster design; Adobe Photoshop CS; ArcView 3.2; ArcGis 10;

PUBLICATIONS

ISI JOURNALS AND BOOK CHAPTERS:

SP.1 Lo Iacono C., **Savini A.**, Huvenne V.A.I, Gracia E (in press) Habita Mapping of Cold-Water Corals in the Mediterranean Sea. In: Orejas C., Jimenez C. Mediterranean Cold-Water Corals: Past, Present and Future. Coral reefs of the World 9 – Springer https://doi.org/10.1007/978-3-319-91608-8_15.

SP.2 **Savini A.**, Pinson S., Bistacchi A. and C.W. Holland (2018). Imaging shallow gas migration pathways in a mud-volcano province using an autonomous underwater vehicle (Malta Plateau, Mediterranean Sea). Near Surface Geophysics, doi: 10.1002/nsg.12017

SP.3 Coletti G., Bracchi V.A., Marchese F., Basso D., **Savini A.**, Vertino A., Corselli C. (2018) Quaternary build-ups and rhodalgal carbonates along the Adriatic and Ionian coasts of the Italian peninsula: a review. Rivista Italiana di Paleontologia e Stratigrafia (Research in Paleontology and Stratigraphy) 124(2): 387-406

SP.4 Micallef A; Krastel S; **Savini A** (eds.) 2018. Submarine Geomorphology. Springer.

SP.5 Micallef A, Krastel S, **Savini A** (2018). Introduction. In: Micallef A; Krastel S; Savini A, Submarine Geomorphology. p. 1-9, Springer, ISBN: 978-3-319-57851-4, doi: 10.1007/978-3-319-57852-1_1

SP.6 Micallef A, Krastel S, **Savini A** (2018). Conclusion. In: Micallef A; Krastel S; Savini A, Submarine Geomorphology. p. 1-9, Springer, ISBN: 978-3-319-57851-4, doi: 10.1007/978-3-319-57852-1_27

SP.7 Lo Iacono C, **Savini A**, Basso D (2018). Cold-Water Carbonate Bioconstructions. In: Micallef A., Krastel S., Savini A, Submarine Geomorphology. p. 425-455, Springer, ISBN: 978-3-319-57851-4, doi: 10.1007/978-3-319-57852-1_22

SP.8 Grehan A. J., Arnaud-haond S., D'onghia G., **Savini A.**, Yesson C. (2017). Towards ecosystem based management and monitoring of the deep Mediterranean, North-East Atlantic and Beyond. DEEP-SEA RESEARCH. PART 2. TOPICAL STUDIES IN OCEANOGRAPHY, vol. 145, p. 1-7, ISSN: 0967-0645, doi: 10.1016/j.dsr2.2017.09.014

SP.9 Bracchi V, Basso D, Marchese F, Corselli C, **Savini A** (2017). Coralligenous morphotypes on subhorizontal substrate: A new categorization. CONTINENTAL SHELF RESEARCH, vol. 144, p. 10-20, ISSN: 0278-4343, doi: 10.1016/j.csr.2017.06.005

- SP.10** Bargain A, Marchese F., **Savini A.**, Taviani M., Fabri MC (2017). Santa Maria di Leuca province (Mediterranean Sea): Identification of suitable mounds for cold-water coral settlement using geomorphometric proxies and maxent methods. *FRONTIERS IN MARINE SCIENCE*, vol. 4, 338, ISSN: 2296-7745, doi: 10.3389/fmars.2017.00338
- SP.11** Fallati, L, **Savini, A.**, Sterlacchini, S, Galli, P. (2017). Land use and land cover (LULC) of the Republic of the Maldives: first national map and LULC change analysis using remote-sensing data. *ENVIRONMENTAL MONITORING AND ASSESSMENT*, vol. 189, p. 1-15, ISSN: 0167-6369, doi: 10.1007/s10661-017-6120-2
- SP.12** Davies JS, Guillaumont B, Tempera F, Vertino A, Beuck L, Ólafsdóttir SH, Smith C, Fosså JH, Van den Beld IMJ, **Savini A.**, Rengstorf A, Bayle C, Bourillet JF, Arnaud-Haond S, Grehan A. In press. A cold-water coral biota classification scheme for ecosystem-based management of the deep sea. *Deep-Sea Res. partII*.
- SP.13** D'Onghia G, Calculli C, Capezzuto F, Carlucci R, Carluccio A, Grehan A, Indennitate A, Maiorano P, Mastrototaro F, Pollice A, **Savini A.**, Sion L, Tursi A in press. Anthropogenic impact in the Santa Maria di Leuca cold-water coral province (Mediterranean Sea): observations and conservation straits
- SP.14** Bracchi V.A., Marchese F., **Savini A.**, Chimienti G., Mastrototaro F., Tessarolo C., Cardone F., Tursi A & Corselli C. 2016. Seafloor integrity of the Mar Piccolo basin (southern Italy): quantifying anthropogenic impact. *Journal of map*. DOI: 10.1080/17445647.2016.1152920
- SP.15** **Savini A.**, Marchese F., Verdicchio G. and Vertino A. (2016) Submarine slide topography and the distribution of vulnerable marine ecosystems: a case study in the Ionian Sea (eastern Mediterranean). In: Lamarche G, et al. (eds) *Submarine mass movements and their consequences*, *Advances in Natural and Technological Hazards Research*, Springer, Dordrecht, 41, pp 163–170.
- SP.16** Bracchi V., **Savini A.**, Marchese F., Palamara S., Basso D., Corselli C., 2015, in press. Coralligenous habitat in the Mediterranean Sea: a geomorphological description from remote data. *Ital. J. Geosci. (Boll. Soc. Geol. It.)*. DOI: 10.3301/IJG.2014.16
- SP.17** **Savini A.**, Vertino A, Marchese F, Beuck L, Freiwald A (2014) Mapping Cold-Water Coral Habitats at Different Scales within the northern Ionian Sea (central Mediterranean): an assessment of coral coverage and associated vulnerability. *PLoS ONE* 9(1): e87108. DOI: 10.1371/journal.pone.0087108
- SP.18** F. Mastrototaro, P. Maiorano, A. Vertino, D. Battista, A. Indennitate1, **A. Savini**, A. Tursi1 & G. D'Onghia. 2013. A facies of Kophobelemnion (Cnidaria, Octocorallia) from Santa Maria di Leuca coral province (Mediterranean Sea). *Marine Ecology*, 34(3), 313-320. DOI: 10.1111/maec.12017.
- SP.19** **Savini A.**, Basso D., Bracchi V.A., Corselli C., Pennetta M., 2012. Maërl-bed Mapping and carbonate quantification on submerged terraces offshore the Cilento Peninsula (Tyrrhenian Sea, Italy). *Geodiversitas*, 34(1), 77-98.
- SP.20** D'Onghia G., Indennitate A., Giove A., **Savini A.**, Capezzuto F., Sion L., Vertino A., Maiorano P. 2012. Distribution and behaviour of the deep-sea benthopelagic fauna observed by towed camera in the Santa Maria di Leuca cold water coral province (Mediterranean Sea). *Marine & Ecology Progress series*, 443, 95-110.
- SP.21** **Savini A.**, Corselli C., Durmishi C., Marku S., Morelli D., Tessarolo C., 2011. Geomorphology of the Vlorë Gulf Seafloor: Results from Multibeam and High-Resolution Seismic Data. *Journal of Coastal Research*, SI 58, 6-16.
- SP.22** Taviani M., Vertino A., Lopez-Correa M., **Savini A.**, De Mol B., Remia A., Montagna P., Angeletti L., Zibrowius H., Alves T., Salomidi M., Ritt B., Henry P. 2011. Pleistocene to Recent deep-water corals and coral facies in the Eastern Mediterranean. *Facies* 57 (4), 579-603.
- SP.23** **Savini A.** 2011. Side-scan Sonar as a tool for seafloor imagery: examples from the Mediterranean continental margin. In: *Sonar System*. Chapter 14, 299-322. Ed. N. Kolev. Intech.
- SP.24** **Savini A.**, Corselli C. 2010. High resolution bathymetry and acoustic geophysical data from Santa Maria di Leuca Cold Water Coral province (Northern Ionian sea–Apulian continental slope). *Deep-Sea Research II*, 57 (5-6) 326-344.
- SP.25** Vertino, A., **Savini, A.**, Rosso, A., Di Geronimo, I., Mastrototaro, F., Sanfilippo, R., Gay, G., Etiope, G., 2010. Benthic habitat characterization and distribution from two representative sites of the deep-water SML Coral Mound Province (Mediterranean). *Deep-Sea Research II*, 57 (5-6) 380-396.

- SP.26** Etioppe, G., **Savini A.**, Lo Bue N., Favali P., Corselli C., 2010. Deep sea survey for the detection of methane at the "Santa Maria di Leuca" cold-water coral mounds (Ionian Sea, South Italy). Deep-sea Research II, 57 (5-6) 431-440.
- SP.27** Malinverno, E., Taviani, M., Rosso, A., Violanti, D., Villa, I., **Savini, A.**, Vertino, A., Remia, A., Corselli, C., 2010. Stratigraphy and sedimentology within the Santa Maria di Leuca DWC Province. Deep-Sea Research II, 57 (5-6) 345-359.
- SP.28** **Savini A.**, Malinverno E., Etioppe G., Tessarolo C., Corselli C. 2009. Shallow seep-related seafloor features along the Malta Plateau (Sicily channel -Mediterranean Sea): Morphologies and geo-environmental control of their distribution. Marine and Petroleum Geology 26, 1831-1848.
- SP.29** Fusi N., **Savini A.**, Corselli C. (2006) "High resolution (chirp) survey in the Ionian sea (Italy, central Mediterranean): seismic evidence of mud diapirism and coral mounds". Annals of Geophysics, vol. 49 (2/3): 751-765.
- SP.30** Yakimov M. M., Cappello S., Crisafi E., Tursi A., **Savini A.**, Corselli C., Scarfi S. and L. Giuliano (2006) "Phylogentic survey of metabolically active microbial communities associated with the deep-sea coral *Lophelia pertusa* from the Apulian plateau, Central Mediaterranean Sea". Deep Sea Reseach Part I: Oceanographic Reseach Papers 53(1): 62-75.
- SP.31** Taviani M., Remia A., Corselli C., Freiwald A., Malinverno E., Mastrototaro F., **Savini A.**, Tursi A. (2005). "First geo-marine survey of living cold-water *Lophelia* reefs in the Ionian Sea (Mediterranean basin)". Facies 50: 409-417.

NON-ISI NATIONAL AND INTERNATIONAL JOURNALS

- SP.32** Pennetta M., Bifulco A., **Savini A.** 2013. Ricerca di depositi di sabbia sottomarina relitta sulla piattaforma continentale del Cilento (Sa) utilizzabile per interventi di ripascimento artificiale dei litorali. Geologia dell' Ambiente, 1/2013 suppl.. ISSN 1591-5352
- SP.33** **Savini A.**, Petrillo M. 2009. Seascapes of war: investigations with marine geophysics. Europe's Deadly Century – Perspectives on 20th century conflict heritage. Edited by Neil Forbes, Robin Page and Guillermo Pérez. Published by English Heritage.
- SP.34** **Savini A.**, Petrillo M., 2009. Tecniche geofisiche per l'esplorazione dei paesaggi di guerra sottomarini. Gazzetta Ambiente 2009 n°5. 18-25
- SP.35** Corselli C., **Savini A.** 2007. La geofisica marina: uno strumento significativo per le ricerche archeologiche. Gazzetta Ambiente 2007 n°2. 139-144

CONFERENCE ABSTRACTS

- SP.36** **Savini A.**, Vertino A., Marchese F., Beuck L., Loubrieu B., Corselli C., Freiwald A., Olu K. Sarrazin J., Taviani M. Multi-scale spatial distribution and characterization of CWC habitats in the northern Ionian Sea. 2012. ISDSC – International Symposium on Deep-Sea Corals. Book of abstracts. Amsterdam, Oland, 1-6 April 2012.
- SP.37** Cartojan E., Guida D., Pennetta M., **Savini A.**, Siervo V., Valente A., Automated extraction of geomorphometric properties of relic sandy bodies in the continental platform from a digital map geo-referenced in a GIS: the case of Cilento. IAG/AIG International Workshop on ¹⁴SEP Objective Geomorphological Representation Models: Breaking through a New Geomorphological Mapping Frontier" - Department of Civil Engineering - University of Salerno (Italy) – European Cilento & Vallo di Diano Geopark (Italy), October 15-19, 2012. Abstract Book, 27-29.
- SP.38** **Savini A.**, Vertino A., Loubrieu B., Marchese F., Corselli C., Freiwald A., Sarrazin J., Taviani M. Multi-scale mapping of cold-water coral habitats on the Ionian margin (Mediterranean sea). GeoHab Conference, Helsinki, Finland, 3-6 May, 2011.
- SP.39** **Savini A.**, Corselli., Loubrieu B., Vertino A., Foucher J.P., Fabri M.C., Olu K., Sarazzin J. 2010. From small to large scale habitat mapping in the Mediterrenean SML cold-water coral province: results from one representative site (the "Atlantis" mound). 39th CIESM congress, Venezia, 10-14 Maggio 2010.
- SP.40** Bourillet J.F., Schmitt T., **Savini A.**, Guillaumont B., Arnaud-Haond S. 2010. Geomorphological characterisation of cold water corals habitats (Bay of Biscay, NE Atlantic). GeoHab Conference, Wellington, New Zeland, 3-7 Maggio, 2010.

- SP.41 Savini A.** 2009. Geospatial analysis of failure related seabed features on the southern Apulian continental slope. 1^o International Conference on Seafloor Mapping for Geohazard Assessment, Forio D'Ischia, Napoli, 10-13 Maggio 2009.
- SP.42 Savini A.,** Bracchi V.A., Basso D., Corselli C., Pennetta M. 2009. Maerl facies distribution offshore of Cilento peninsula (Tyrrhenian Sea, Italy). 6th regional symposium of the IFAA (International Fossil Algae Association), Milano, 1-5 luglio 2009.
- SP.43 Ranieri, G.,** Loddo, F., Godio, A., Stocco, S., Cosentino, P. L., Capizzi, P., Messina, P., **Savini, A.,** Bruno, V., Cau, M. A., Orfila, M. 2009. Reconstruction of archaeological features in Mediterranean coastal environment by means of non-invasive techniques and its digital musealization. CAA2009 "Making History Interactive", 22-26 Marzo, Williamsburg, Virginia, USA.
- SP.44 Le Guilloux E,** Scalabrin C, Loubrieu B, Vangiresheim A, Chailloux C, Vertino A, **Savini A,** Sarazzin J, Olu K 2008. High-Resolution Habitat Mapping of Italian CWC Reefs: Results from ROV's Optical and Acoustic Survey Coupling. Deep sea coral symposium 2008 – 4th ISDSC. Wellington, New Zeland, 1-5 December 2008.
- SP.45 Ranieri G.,** Deidda G.P., Loddo F., Piga C., Manos A., Cosentino P.L., Capizzi P., Fiandaca G., Martorana R., Messina P., Razo Amoroz I., Godio A., Stocco S., Corselli C., Cassiani G., Bruno V., **Savini A.** (2007) Primi risultati delle indagini geofisiche nei siti archeologici di Mozia (Sicilia occidentale) e Pollentia (isola di Maiorca). Progetto firb 2003 - Ricostruzione e valorizzazione del paesaggio archeologico in ambiente costiero mediterraneo tramite tecnologie innovative non invasive. 26 GNGTS national conference. Rome, 13-15 November 2007.
- SP.46 Savini A.,** Corselli C., Tessarolo C., Daffonchio D., Bellanca A., Danovaro R., Etiopie G., (2007). Seafloor mapping and acoustic geophysical data of a shallow likely mud-volcanoes province offshore sicily (eastern Sicily Channel – Hyblean-Malta plateau). 38th CIESM conference, 09-13 Aprile 2007- Istanbul
- SP.47 Savini A.,** Tessarolo C., Corselli C..(2007) Gas-Charged Sediments Within the Hyblean Plateau Seismo-Stratigraphic Sequence and Associated Likely Shallow Mud-Volcanoes Seafloor Features offshore southern Sicily (Sicily channel – Mediterranean sea). AGU fall meeting. San Francisco, 11-14 December, 2007.
- SP.48 Corselli C.,** Favali P., Rosso M. A., Spezie G., Taviani M., **Savini A.,** Etiopie G., Tursi A., Mastrototaro F., Remia A., APLABES CONSORTIUM. "The Santa Maria di Leuca Lophelia reefs of the Mediterranean sea: A research in progress". EGU General assembly, Vienna, 02-07 April 2006.
- SP.49 Savini A.,** Pennetta M., Corselli C. (2005). "Geophysical Investigation for exploring marine sand deposits (Cilento Peninsula - Southern Italy)". Proceeding on the Seventh International conference on Mediterranean Coastal Environment. MEDCOAST 05, E.Özhan (Editor), 24-29 Ottobre 2005, Kasudasi, Turchia (Vol.2: 973-984).
- SP.50 Savini A.,** Malinverno E., Lo Bue N., Corselli C.(2005). "Geophysical survey on carbonate mounds area in the northern Ionian Sea (Apulian continental slope): multibeam and high resolution seismic data". EGU General assembly, Vienna, 24-29 April 2005.
- SP.51 Savini A.,** Lo Bue N., Malinverno E., Corselli C., Di Geronimo I., Rosso A., Tursi A. "Carbonate mounds on the Apulian continental slope: morphology, distribution and their relation with dead and living deep water corals". 23 GNGTS national conference. Rome, 14-16 December 2004.
- SP.52 Taviani M.,** Corselli C., Freiwald A., Malinverno E., Mastrototaro F., Remia A., **Savini A.** & Tursi. A. "Rise, decline and resurrection of deep-coral banks in the Mediterranean Basin: Results of CORAL Mission in the Ionian Sea".- Vortrag auf dem 2nd International Symposium on Deep Sea Corals, September 2003, Erlangen, Germany.
- SP.53 Fusi N., Savini A.,** Corselli C. "High resolution (chirp) survey in the Ionian sea (Italy, central Mediterranean): seismic evidence of mud diapirism and coral mounds". EGS-AGU-EUG Nice, 6-11 April 2003
- SP.54 Taviani M.,** Corselli C. , Freiwald A. , Malinverno E., Mastrototaro F. , Remia A., **Savini A.,** Tursi A. and the CORAL Shipboard Staff "Pleistocene to recent deep-coral growth on peri-ionian escarpments, Mediterranean basin" - EGS-AGU-EUG. Nizza, 6-11 April 2003.

WORKSHOPS, PROJECT MEETINGS AND OTHER ABSTRACTS

- SP.55** Foglini F., **Savini A.**, 2012. Overview on habitat classification schemes from the point of view of a marine geologist: a Mediterranean perspective. CoCoNET Workshop on habitat classification schemes in deep and shallow water areas. Lecce, Italy, 15-16 May 2012
- SP.56** **Savini A.**, Vertino A., Beuck L., Guillaumont B., Grehan A., Mapping vulnerable Marine Ecosystems (VMEs) in the deep-sea: the CoralFISH approach and its feedback for the Mediterranean setting. CoCoNET Workshop on habitat classification schemes in deep and shallow water areas. Lecce, Italy, 15-16 May 2012
- SP.57** **Savini A.**, Vertino A., Loubrieu B., Marchese F., Freiwald A., Olu K., Sarrazin J. High resolution Side Scan Sonar data from S.Maria di Leuca CWC province (northern Ionian sea). CoralFISH scientific meeting, Heraklion, 30 October – 4 November 2011.
- SP.58** Vertino A., **Savini A.**, Beuck L., Negri M., Malinverno E., Mastrototaro F., Corselli C. Bathyal benthic habitats from the southern Apulian slope: characterization, spatial distribution and modifications through time. CoralFISH scientific meeting, Heraklion, 30 October – 4 November 2011.
- SP.59** D'Onghia G., Panza M., Maiorano P., **Savini A.**, Mastrototaro F., Sion L., Corselli C., Tursi A. The CoNISMa lander (CRAB: Conisma Research-lander Assessing Biodiversity): a result of the CoralFISH project. CoralFISH scientific meeting, Milan 29 November – 3 December 2010.
- SP.60** **Savini A.**, Vertino A., Loubrieu B., Marchese F., Corselli C., Freiwald A., Sarazzin J., M. Taviani. Mapping deep-sea habitats in the northern Ionian Sea: the role of geomorphology in the distribution of cold-water coral ecosystems. CoralFISH scientific meeting, Milan 29 November – 3 December 2010.
- SP.61** Vertino A., **Savini A.**, Negri M., Beuck L., Scuderi A., Malinverno E., Milan L., Panettieri M., Baratti V. 2010. Habitat characterization, ecological and paleoecological observations. CoralFISH scientific meeting, Milan 29 November – 3 December 2010.
- SP.62** **Savini A.**, Corselli C., Loubrieu B., Vertino A., Foucher J.P., Fabri M.C., Olu K., Sarazzin J. 2009. Mappatura di habitat bentonici in ambiente profondo: la provincia a coralli bianchi di Santa Maria di Leuca (Mar Ionio settentrionale). CINFAI – Environment including Global Change. Palermo, 5-8 October, 2009.
- SP.63** C. Tessarolo, **A. Savini**, E. Malinverno, C. Corselli, 2009. Rischio geologico in area costiera e cambiamenti climatici: il caso studio del margine calabro Ionico. CINFAI – Environment including Global Change. Palermo, 5-8 October, 2009.
- SP.64** C. Tessarolo, E. Malinverno, **A. Savini**, C. Corselli, 2009. La mappatura dei bacini anossici: nuovi dati dalla crociera DOPPIO. CINFAI – Environment including Global Change. Palermo, 5-8 October, 2009.
- SP.65** B. Guillaumont, **A. Savini**, T. Smith, 2009. Cold-water Coral typology for mapping habitats: Preliminary Analysis. CoralFISH meeting, Heraklion 5 – 8 October 2009.
- SP.66** **Savini A.**, Petrillo M. (2008). Marine Geophysical techniques to investigate the seascape of war (Landscape of War Workshop on *Methods of Investigation*). Coventry, 1-4 April, 2008.
- SP.67** **A. Savini**, B. Loubrieu, A. Vertino, J.-P. Foucher, M.-C. Fabri, K. Olu. 2008. Acoustic Geophysical investigations at the "Santa Maria di Leuca" cold coral province (Northern Ionian sea): what we know from small to large scale seafloor mapping at one representative site ("Atlantis" mound). MEDECO cruise Meeting. Brest, 6-7 November 2008.
- SP.68** R. Francioso, M. Petrillo, **A. Savini**, K. Zaimi 2008. Variazioni della linea di riva e della batimetria tra Capo Treporti e il porto vecchio di Valona (Albania). Convegno Conisma 2008. Lecce 4-8 November 2008.
- SP.69** Beuck, L., Freiwald, A., Taviani, M., Le Gouilloux, E., **Savini, A.**, Verdicchio, G., Ceramicola, S. (2007): Meteor Expedition M70-1: Discovery of cold-water coral communities in the Central Mediterranean. HERMES meeting, Faro 24-26 March 2007.
- SP.70** **Savini A.**, Tessarolo C. (2007). Aspetti geologici e riconoscimento degli elementi di pericolosità dei fondali della Puglia (mar Ionio settentrionale) e di un settore della Calabria Ionica (Marina di Gioiosa e Caulonia). MAGIC project workshop (Marine Geohazards along the Italian Coasts) GeolItalia 2007 - Rimini, 10-11 September 2007.

- SP.71** Tursi A., Corselli C., Etiope G., **Savini A.** "White corals in santa Maria di Leuca (Ionian Sea, southern Italy)". 3rd Port-Cros Conference, 5-7 October 2005 – Porquerolles, Francia.
- SP.72** **Savini A.**, C. Corselli "Seafloor mapping: textural analysis of side scan sonar images for bottom type classification and target detection on Mediterranean continental shelf". Le scienze naturali, economiche e giuridiche nello studio e per la gestione degli ambienti acquatici". CoNISMa – AIOL. Terrasini (PA) 18 - 22 October 2004.
- SP.73** **Savini A.**, Corselli C. "Hyperspectral remote sensing data analysis: a tool for studing lagoon environment" 3° convegno nazionale per le Scienze del mare - CoNISMa, AIOL, SIBM e SitE. Bari, 27 - 30 November 2002.

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