

CURRICULUM VITAE

Alessandra Savini

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Position: Associate professor, Physical Geography and Geomorphology, University of Milano-Bicocca, Italy
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Web of Science research ID: C-2264-2019 **Scopus ID:** 8383758600 - **ORCID:** <https://orcid.org/0000-0002-5818-5947> - **Google Scholar:** <https://scholar.google.it/citations?user=WHu-wwAAAAJ&hl=it>

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

EDUCATION

- 2004 PhD in Geological Sciences and Geotechnologies, Milano-Bicocca University, Italy. PhD Thesis: "Development of analytical methods for the interpretation of seafloor mapping data and their management in GIS".
- 2001 Post-graduate specialization (II level University Master Degree) in Applied Geophysics. Institute of geophysics and marine environment. La Spezia.
- 1999 Master of Science in Natural Sciences. Thesis title: "Monitoring of coastal environments by means of acoustic seafloor mapping techniques (western Sicily)". University of Milan.

SUMMARY STATEMENT OF RESEARCH INTERESTS AND ACTIVITY

Alessandra Savini is associate professor at the University of Milano-Bicocca, where she teaches introductory courses in Submarine Geomorphology. She is a marine geoscientist with expertise in seafloor imaging and mapping using geophysical data (bathymetry, backscattering and seismic) and RGB still images and videos. She investigates the interaction between submarine geomorphic processes and benthic organisms, over long- and short-time scales. Emphasis is given to marine bioconstructions (from cold-water to tropical corals) and cold seep systems, to decipher the response of submarine landforms and associated landscapes to Pleistocene and Holocene climate changes. She participated, also as leader or co-leader, in numerous national and EU funded projects, taking part in more than 30 oceanographic surveys in the Mediterranean Sea and Atlantic, Indian and Arctic Oceans (leading 8). She is a member of the submarine geomorphology working group (established under the flag of the International Association of Geomorphologists – IAG), whose activity has made a significant contribution to the establishment of submarine geomorphology as a scientific discipline, emphasizing its multidisciplinary role and numerous applications in the environmental field as well. She is a member of the Scientific Committee of the MaRHE center, located in Maldives (www.marhe.unimib.it) and included in the Italian node of the European EMBRC (European Marine Biological Research Center) community infrastructure, where she coordinates the annual training course on mapping technologies in coral-reef environments.

To a certain extent, her research activity can be deemed to be at the interface of (submarine) geomorphology and (benthic) ecology and it mainly focuses on:

- The geo-acoustic characterisation of the seabed and the development of advanced statistical and spatial analytical tools to perform automatic and/or semi-automatic detection of submarine landforms and to map benthic habitats in complex deep-sea environments (cold-water coral settings and cold-seep systems) and shallow tropical coral-reef systems.
- Study of the initiation and development of algal and coral reefs and mounds (in both tropical and deep-sea settings), based on high resolution 2D seismic, side-scan sonar data, multibeam bathymetry and backscatter, (ROV) video data and seabed samples.
- Offshore geo-hazard assessment (with a focus on submarine slides and their consequences) and anthropogenic impact in marine environment, based on the application of innovative techniques for

quantitative analysis of acoustic and optical remote sensing data such as *Deep Learning* and Object-Based Image Analysis (OBIA).

- Development of innovative methodologies to visualise, analyse, model, interpret and communicate geological and environmental data in 3D, with a focus on developing new teaching methods based on the use of Virtual Reality.

CARRIER SUMMARY

October 2020 – present:

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

Present-day teaching duties:

- Fundamentals in Marine Physical Geography (6CFU) – International Master Course in *Marine Sciences* and Geological Sciences and Geotechnologies
- Applied Geomorphology and Habitats (6CFU) – International Master Course in Marine Sciences.
- Introduction to Geography of the Oceans – Bachelor course in Geological Sciences and Geotechnologies

December 2008 – September 2020

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

December 2006 – December 2008

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

March 2004 – June 2006

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

NATIONAL AND INTERNATIONAL RESEARCH PROJECT INVOLVEMENT

PROJECT	ROLE
BRIDGET "BRIDGING THE GAP BETWEEN THE LAND AND THE SEA IN A VIRTUAL ENVIRONMENT FOR INNOVATIVE TEACHING AND COMMUNITY INVOLVEMENT IN THE SCIENCE OF CLIMATE CHANGE-INDUCED MARINE AND COASTAL GEOHAZARD" ERASMUS + KA220 (CALL 2021 ROUND 1 KA2 - KA220-HED - COOPERATION PARTNERSHIPS IN HIGHER EDUCATION)	PI The interdisciplinary European partnership of our project is made up by marine geoscientists and professionals with tracked expertise in geohazard assessment and climate-driven impacts in tectonically and/or climatically sensitive areas. The team will focus on improving the exploration of coastal and marine 3D models through the medium of VR, with a goal of developing an ad-hoc curriculum at postgraduate level. BridgET aims at deeply renew the way in which applied marine geosciences can be taught, strengthening digital readiness, inclusion, resilience and capacity in students.
PNRA2021-2023 ISOBatA - Italian Southern Ocean Bathymetry from consistent exploitation of opportunistic seafloor datasets in Antarctic region and surrounding areas	RESEARCH UNIT COORDINATOR – UNIVERSITY OF MILANO-BICOCCA ISOBATa aims at defining an innovative and systematic approach that can exploit in an efficient and consistent manner the full potential of seafloor data sets collected within the Antarctic region and surrounding areas, during transit times of the R/V Laura Bassi. RU of Milano-Bicocca will coordinate the definition of standard protocol for geospatial analysis of multibeam and backscattering datasets and automatic classification of submarine landforms.
CRESCIBLUREEF – FISIR 04543 2021-2023 - Grown in the blue: new technologies for knowledge and conservation of Mediterranean reefs.	TEAM MEMBER Scientific responsible of the geomorphological characterization of the continental shelf offshore Marzamemi (south-eastern Sicily coast – Ionian Sea), based on integration of acoustic remote sensing data and the application of photogrammetry-based techniques on video data for 3D imaging and modelling of biogenic submarine landforms (coralligenous bioconstructions).
LITHOMAR - Assessing the relationships between lithospheric processes and seafloor topography at oceanic hotspots	PI <i>International Lithosphere Program</i> (ILP - https://www.scl-ilp.org/) fund Development of an international Task Force (TF) for the establishment of a

and divergent margins - 2021-2025	network of experts, from European and non-European countries, to improve the understanding of interactions between endogenous (tectonics, volcanism and fluid circulation) and underwater surface processes, on long and short term space-time scales, at oceanic hotspots and divergent margins.
AKMA – ADVANCING KNOWLEDGE OF METHANE IN THE ARCTIC (https://akma-project.com/)– 2019-2023	TEAM MEMBER Geomorphological characterization of fluid seeping sites offshore Svalbard and in the Barents Sea, based on integration of acoustic remote sensing data and the application of photogrammetry-based techniques on video data for 3D imaging and modelling of deep-sea environments. Involvement in teaching activity for PhD and Master students.
ERASMUS + 3DTeLC - Bringing the 3D world into the classroom: a new approach to teaching, learning and communicating the science of geohazard in terrestrial and marine environment - 2017-2020 http://3dtelc.lmv.uca.fr/about.html	TEAM MEMBER Teaching activity in 2 <i>training schools</i> (<i>Santorini summer school and Etna summer school</i>) with student tutoring on field work and frontal lectures on integration of <i>on-shore, near-shore</i> e <i>offshore</i> geospatial data for geohazard assessment (http://3dtelc.lmv.uca.fr/training/santorini-summer-school/11-santorini/13-programme-santorini-summer-school-2018.html).
3DARGO - Augmented virtual reality for geology and geophysics - 2017-present. Finanziamento MIUR ACPR15T4_00098 (https://argo3d.unimib.it/)	TEAM MEMBER Development of 3D model of submarine environments to promote their exploration through the medium of Virtual Reality (VR) to develop innovative didactic tools (teaching/learning material) and outreach activities.
UNIVERSITY FUND ("QUOTA COMPETITIVA") "Deepsea Bioconstructions as expression of geomorphic and oceanographic processes - DEEPGEO" 2017-2019	PI Geomorphological and morphometric characterization of biogenic submarine landforms (i.e. carbonate bioconstructions), based on photorealistic 3D models developed through the application of photogrammetry-based techniques on video data and still images acquired in underwater environment.
RITMARE - la ricerca italiana per il mare - 2016-2018 - WP 9 (oil & Gas – conflicts and synergies in the use of the sea)	RESEARCH UNIT COORDINATOR - ULR CoNISMA MILANO-BICOCCA MIUR (Italian Ministry of Research and University) FUND Establishment of a geodatabase on off-shore energy infrastructure for the Adriatic-Ionian region, to support studies for Environmental Impact Assessment derived from exploration and production activities in the context of the different uses of the sea
RITMARE - la ricerca italiana per il mare - 2012-2015 - WP 4 (marine spatial planning of offshore and deep-sea resources)	RESEARCH UNIT COORDINATOR - ULR CoNISMA MILANO-BICOCCA MIUR (ITALIAN MINISTRY OF RESEARCH AND UNIVERSITY) FUND Development of new methods and techniques for improving studies on habitat mapping, anthropogenic impacts and ecosystem services for the deep-sea (http://www.ritmare.it/risultati/sp4-mare-profondo/wp2-mappatura-degli-habitat-impatti-antropici-e-servizi-ecosistemici).
MARINE STRATEGY 2016 CNR-CoNISMA RESEARCH AGREEMENT 2016 MARINE STRATEGY	RESEARCH UNIT COORDINATOR - ULR CoNISMA MILANO-BICOCCA CNR (National Research Council) fund Development of methodological standards and strategies for the national Marine Strategy monitoring programme – WP2 (benthic habitats and biodiversity) and WP6 (hydrographic conditions). Research Unit coordinator for WP6.4 (implementation of topographic and bathymetric information and monitoring of their evolution) and Research Unit supervisor for WP2.1 (monitoring of Cold-water coral habitats), WP2.2 (monitoring of coralligenous habitats) e WP2.4 (monitoring of maerl/rhodoliths bed habitats).
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.	RESEARCH UNIT COORDINATOR - ULR CoNISMA MILANO-BICOCCA EU FP7 fund Project task responsible: Habitat mapping: state of knowledge, data integration and scenarios of protection.
EuroFleet cruise CWC Moira European Union Seventh Framework Programme (FP7/2007-2013), under the Eurofleets	TEAM MEMBER EU euro-fleet call Involved in the organization of the oceanographic cruise EuroFleet – CWC

grant agreement n° 228344	Maira 2012 (http://marinegeology.ucc.ie/wp-content/uploads/sites/87/2018/06/EUROFLEETS_cruise-report_Belgica12.16.pdf)
BIOMAP – BIOcostruzioni MARine in Puglia (marine bioconstruction along the Apulian coast) 2011-2013. www.biomapping.it .	RESEARCH UNIT SCIENTIFIC RESPONSIBLE - ULR CONISMA MILANO BICOCCA Puglia Region fund Acquisition, processing and interpretation of seafloor mapping (multibeam bathymetry and side-scan sonar backscattering) and observational ROV data to map coralligenous habitats along the continental shelf of the Southern Adriatic and Northern Ionian Seas offshore Puglia.
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/ .	RESEARCH UNIT SCIENTIFIC RESPONSIBLE - ULR CONISMA MILANO BICOCCA EU FP7 fund Member of the project <i>steering committee</i> and work-package leader (WP1 - regional cold water coral setting).
MAGIC (Marine Geohazard along the Italian Coasts) 2008-2013, www.magicproject.it . Coordinator Prof. F. Chiocci	RESEARCH UNIT SCIENTIFIC RESPONSIBLE - ULR CONISMA MILANO BICOCCA National fund from the agency for civil protection (<i>protezione civile</i>) Member of the project technical committee for quality data assessment and scientific responsible for the compilation of two maps of marine geohazards (sheet 36 – Siderno and sheet 47 – Santa Maria di Leuca)
VI° Framework Program – HERMES (Hotspot Ecosystem Research on the Margins of European Seas), 2005 – 2009 GOCE-CT-2005-511234-1	TEAM MEMBER EU FP6 fund Involvement in three project oceanographic cruises: - MEDECO, R/V Pourquoi pas? (2007) Assistance in deep-sea coral habitat visual exploration and mapping by means of marine robotic systems (ROV VICTOR6000) at the Santa Maria di Leuca cold-water coral province. - METEOR 70/1, R/V Meteor (2006) Involvement in the acquisition, processing and interpretation of seafloor mapping data in different Mediterranean locations, to drive further direct observations of associated deep-sea habitats using the ROV QUEST4000. - CORSARO, R/V Urania (2006) Involved in seafloor mapping data acquisition at different sites, where living and dead cold-water coral occurrences were documented.
LANDSCAPES OF WAR – Improving Public understanding through the compilation and inventory of 20th century conflict heritage of the European Union, 2006-2008	RESEARCH UNIT SCIENTIFIC RESPONSIBLE - ULR CONISMA MILANO BICOCCA EU Cultura 2000 programme Coordination of shipborne expeditions and definition of a dedicated workflow for the detection and characterization of II World War shipwrecks in the Mediterranean Sea.
CISM project - International center for marine sciences in Albania, 2006 – 2008. InterregIII Italia-Albania (www.cismalbania.it).	RESEARCH UNIT SCIENTIFIC RESPONSIBLE - ULR CONISMA MILANO BICOCCA ARPA (Italian Regional Agency) Puglia fund Chief scientist of project oceanographic cruises (R/V Universitatis) and responsible for acquisition, processing and interpretation of seafloor mapping data (multibeam bathymetry, side-scan sonar and high resolution seismic) and sediment samples (gravity corer and box corer samples).
PRIN2006-2008 MESC project (Mud Volcanoes ecosystem study – Sicily Channel)	RESEARCH UNIT SCIENTIFIC RESPONSIBLE - ULR CONISMA MILANO BICOCCA MIUR (ITALIAN MINISTRY OF RESEARCH AND UNIVERSITY) FUND Chief scientist of project oceanographic cruises (R/V Universitatis) and responsible for acquisition, processing and interpretation of seafloor mapping data (multibeam bathymetry, side-scan sonar and high resolution seismic) and sediment samples (gravity corer and box corer samples).
Aplabes (Apulian Plateau Bank Ecosystem Study) FIRB 2004/2006 RBAU 01RKC7_004	RESEARCH UNIT SCIENTIFIC RESPONSIBLE - ULR CONISMA MILANO BICOCCA MIUR (ITALIAN MINISTRY OF RESEARCH AND UNIVERSITY) FUND Responsible for acquisition, processing and interpretation of seafloor mapping data (multibeam bathymetry, side-scan sonar and high resolution seismic), collection of sediment samples (gravity corer and box corer samples) and planning of direct observation using the MODUS-GAS-Scipack module developed by INGV (www.ingv.it) and TecnoMare.
FIRB2003/2005 Archaeo – Reconstruction and valorization of	RESEARCH UNIT SCIENTIFIC RESPONSIBLE - ULR CONISMA MILANO BICOCCA MIUR (ITALIAN MINISTRY OF RESEARCH AND UNIVERSITY) FUND

archaeological sites in coastal environment using innovative non-invasive techniques.	Chief scientist of project oceanographic cruises and responsible for acquisition, processing and interpretation of seafloor mapping data (multibeam bathymetry, side-scan sonar and high resolution seismic) acquired by means of an “ad-hoc” developed surface vehicle, designed for shallow water environments.
V° EU Framework Program – BIODEEP (Biotechnologies from the Deep), 2001-2005	TEAM MEMBER EU FP4 fund Involvement in one project oceanographic cruises and responsible for acquisition, processing and interpretation of high resolution seismic profiles.
Sedimentology and stratigraphy of Holocene-Late Pleistocene continental shelf deposits offshore Acropoli and Sapri 2004	RESEARCH UNIT SCIENTIFIC RESPONSIBLE - ULR CONISMA MILANO BICOCCA <i>Autorità di Bacino Sinistra Sele</i> (regional administrative body) fund Chief scientist of project oceanographic cruise (R/V Universitatis) for the detection of sedimentary bodies suitable for beach nourishment. Responsible for acquisition, processing and interpretation of seafloor mapping data (multibeam bathymetry, side-scan sonar and high resolution seismic) and collection of sediment samples (gravity corer and grab).
Feasibility study for the establishment of the Marine Protected Area (MPA) – Capo Murro di Porco (Siracusa, Sicily) - 2003	TEAM MEMBER Italian Ministry for the Environment (MATT) fund Responsible for acquisition, processing and interpretation of seafloor mapping data (multibeam bathymetry, side-scan sonar).
RIPO “Rivisitazione della mappatura di alcune praterie di Posidonia oceanica lungo le coste di Liguria, Toscana, Lazio, Basilicata e Puglia” – 2002-2003	TEAM MEMBER Italian Ministry for the Environment (MATT) fund Development of a dedicated geodatabase and GIS platform to store and analyze seafloor mapping data and regional maps for the qualitative assessment of the data representing the distribution of <i>Posidonia oceanica</i> meadows along Italian coasts (Liguria, Toscana, Lazio, Basilicata and Puglia)
Mapping of Posidonia oceanic meadows along the coast of Sardinia and associated minor islands.. Finanziamento MATT, Ministero dell’Ambiente e della Tutela del Territorio	TEAM MEMBER Italian Ministry for the Environment (MATT) fund Responsible for acquisition, processing and interpretation of seafloor mapping data (multibeam bathymetry, side-scan sonar and high resolution seismic) and for the development of a dedicated geodatabase to archive all data in a GIS and provide thematic maps.
Atlas of Side Scan Sonar data: acoustic facies of the Mediterranean continental shelves’ submarine landforms - 2002 –	PI Italian Ministry for Research and University (MIUR) fund for young researchers - (Ministry note n. 1707 del 22.07.1998) Generation of an Atlas of Side-Scan Sonar imagery representing typical submarine landforms of the continental shelves of the Mediterranean Sea.

SCIENTIFIC COMMITTEE, WORKING GROUPS AND VISITING SCHOLAR

- October 2020 – present: Appointed as representative for the university of Milano-Bicocca in **EMBRIC-IT**.
- March 2020 – present: Member of **ABCD center**, the official body of the University of Milano Bicocca **addressing the issue of gender** and recognized by the Rectorate. ABCD aims to motivate the interest of aggregating multidisciplinary research and innovation activities in the field of gender studies with particular reference to actions aimed at analysing the forms in which differences, inequalities, dynamics and gender relations are expressed through societies and cultures.
- 2018-present: Member of the scientific committee of **GEMMA** (Geo Environmental Measuring and Monitoring from multiple pLATFORMS), a new infrastructure of the University of Milano-Bicocca where she is responsible of management and acquisition of new tools and facilities for monitoring underwater environments.
- 2013-present: Member of the **Submarine Geomorphology working group** (<http://www.geomorph.org/submarine-geomorphology-working-group/>) established under the flag of the International Association of Geomorphologists (IAG).
- 2012-present: Member of the scientific committee of the **MARHE center** (*Marine Research and High Education center* - www.marhe.unimib.it), located in Magoodhoo, Faafu atoll, Republic of Maldives.
- January-June 2020: Visiting scholar at **CAGE** (Centre of excellence for Arctic Gas Hydrates, Environment and Climate) - Arctic University of Norway (UiT), Tromsø, Norway.

- 2008-2012: Member of the Steering Committee of the **EU FP7 CORALFISH project** Theme 6: Environment; Activity 6.2: Sustainable Management of Resources - Grant agreement no.: 213144
- 2007-2012: Member of technical Committee of the national **MAGIC** (*Marine Geohazard along the Italian Coasts*) project for quality data assessment.

CONSULTING AND NON-ACADEMIC APPOINTMENTS

2020: Consultant for CoNISMa within the framework of "EMODNET -High Resolution Seabed Mapping (SUB-Contract SHOM/Conisma)" project for the evaluation and the collection of seafloor mapping and geological data in the Ionian Sea, Sicily channel, Sardinia channel and Ligurian Sea.

2017: Consultant for the Ministry of Agriculture, Rural Development and Environment, Department of Fishery and Marine Resources of the Republic of Cyprus for the preparation of the *Scope of work* (SoW) for a survey of the benthic biodiversity of Eratosthenes Seamount in the EEZ of The Republic of Cyprus (Tender No.: 9/2017) to improve the identification of specific deep sea benthic habitats included in Annex I of the Habitats Directive (92/43/EC), namely the Habitat 1170 "Reefs" and Habitat 1180 "Submarine structures made by leaking gas".

2012-2013: Consultant for CoNISMa, within the framework of an agreement with ISPRA (Institute for Environmental Protection and Research), for the compilation of the "report on Expert Judgment" and the definition of the actions to be taken for the application of the marine strategy framework directives.

2012: Consultant for Porto Cesareo MPA - acquisition of tools and facilities for habitat and seafloor mapping activities.

2010: Consultant for CNRS within the framework of WP1 of CANA project (Establishing monitoring and sustainable development of the Lebanese Sea) - Bathymetric maps and management of coastal resources in Lebanon.

2007: Principle Marine Geophysicist *and* chief scientist on board R/V *Universitatis* (CoNISMa) – site survey for wind farm building offshore Tricase (Southern Adriatic Sea).

2005: Principle Marine Geophysicist and chief scientist on board R/V *Universitatis* (CoNISMa) for the research of the ATR-72 aircraft, 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.

2005: Principle Marine Geophysicist *and* chief scientist on board R/V *Universitatis* (CoNISMa) – for an archaeological site survey offshore Albenga (Ligurian Sea).

2006: Principle Marine Geophysicist *and* chief scientist on board R/V *Universitatis* (CoNISMa) – Route survey for a pipeline construction project between Brindisi and Valona (Southern Adriatic Sea) Trans-Adriatic Pipeline (TAP).

2004: Principle Marine Geophysicist / Geologist for RESON MEDITERRANEAN s.r.l. (BO – Italy)

2004: Principle Marine Geophysicist and chief scientist (Harbour Authority La Spezia, Italy) on board a small boat (*QUEJIII*): multibeam survey for the detection of ancient manmade objects with archaeological value.

2000: Assistant surveyor. Technician and scientific navigator in offshore surveys. NAUTILUS s.c.r.l (VV – Italy)

OCEANOGRAPHIC EXPEDITION

Alessandra Savini participated in more than 30 oceanographic expeditions carried out in the framework of European projects, national research projects funded by MIUR or MATT, or other public and/or private institutions and Industry, leading 17 of them (chief scientist in 8 research project oceanographic cruises).

CAGE21_1: (22-31 MAY 2021, R/V *KRONPRINS HAAKON*) – Arctic Ocean. Responsible for the planning of ROV AEGIR6000-based multibeam surveys and acquisition of video data for seafloor photomosaic in selected cold-seep sites located offshore Svalbard, within the framework of AKMA (Advanced Knowledge of Methane in the Arctic) project.

CAGE20-7 (2-16 NOVEMBER 2020, R/V *KRONPRINS HAAKON*) – Arctic Ocean. Responsible for the planning of ROV AEGIR6000-based multibeam surveys and acquisition of video data for seafloor photomosaics in selected cold-seep sites located offshore Svalbard.

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.

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 for 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 for 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 SEPTMEBER 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.

EDITORIAL ACTIVITY

2021 – PRESENT: Member of the editorial board as ASSOCIATE EDITOR for the open access journal *Frontiers in Marine Geosciences* (I.F. 3.498) - <https://www.frontiersin.org/journals/earth-science/sections/marine-geoscience#editorial-board>

2018 – 2021: **GUEST EDITOR** on Water, MDPI (I.F. 2.54) – special issue "**Landscape and Landforms of Terrestrial and Marine Areas**" (M. Soldati, F. Foglini, M. Prampolini, A. Savini) https://www.mdpi.com/journal/water/special_issues/Landscapes_Landforms_Marine

2018: **EDITOR** – A. MICALLEF, S. KRSTEL, A. SAVINI, 2018. **SUBMARINE GEOMORPHOLOGY**, Springer. Book Series "Springer Geology". (<https://www.springer.com/gp/book/9783319578514>)

2015-2017: **GUEST EDITOR** on Deep Sea Research Part II – Topical Studies in Oceanography Elsevier (I.F. 2,69) – special issue "**Towards ecosystem based management and monitoring of the deep Mediterranean, North-East Atlantic and Beyond**", (<https://www.sciencedirect.com/journal/deep-sea-research-part-ii-topical-studies-in-oceanography/vol/145>).

WORKSHOP AND CONFERENCE SESSION CONVENER

Co-Convener - session GM6.10/ OS1/SSP3 "**Submarine geomorphology**" EGU22 General Assembly, 23-27 May 2022. <https://meetingorganizer.copernicus.org/EGU22/session/43897>.

Co-Convener - Session "Geology and Ecosystems" – SGI (Italian Geological Society) conference, Trieste, 14-16 September 2021.

Co-Convener - session GM6.3/ OS4/SSP3 "**Submarine geomorphology**" vEGU General Assembly 2021, 19-30 April. https://meetingorganizer.copernicus.org/EGU21/session/40288#vPICO_presentations.

Co-Convener - session "EP065 Submarine and Seismic Geomorphology " AGU2020, in the online format 1-17 December 2020.

Co-Convener session GM6.7/OS4.31/SSP3.16 "**Submarine geomorphology, and advances in seabed mapping and classification**" EGU General Assembly 2020 in the online format (sharing Geoscience online https://egu2020.eu/sharing_geoscience_online/sharing_geoscience_online.html).

Co-Convener session "EP11B Submarine Geomorphology and Subseafloor Seismic Geomorphology for Paleoenvironmental Reconstruction" AGU2019, San Francisco, USA, 9-13 December, 2019.

Co-Convener session "**Submarine geomorphology**" Regional Conference on Geomorphology – Geomorphology of Climatically and Tectonically sensitive areas – RCG2019, Athens, Greece, 19-21 September, 2019.

Co-Convener session GM11.1/OS4.29/SSP3.14/TS4.10 "**Submarine geomorphology**" EGU General Assembly 2019. Vienna, Austria, 7-12 April, 2019.

Co-Convener session GM11.1/OS4.12/SSP3.24 "**Submarine geomorphology**" EGU General Assembly 2018. Vienna, Austria, 8-13 April, 2018

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

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

Co-Convener session "GM12.1/NH5.10/SSP3.19 "**Seafloor- and Sub-seafloor Expression of Geomorphic and Tectonic Processes**" EGU General Assembly 2016. Vienna, Austria, 17-22 April, 2016.

Convener within the framework of the national workshop "**COMPARAZIONE DI FORME E PROCESSI IN DIVERSI CONTESTI GEOLOGICI DEI FOGLI MAGIC**". Rome, ISPRA, 14-15 December, 2011.

Convener within the framework of the international CoralFish project workshop "**WP1 - Regional Cold-Water Coral settings**". 30 – 31 January, 2013. Paris, France, IFREMER head office.

INVITED LECTURER

2021 - Invited lecturer at The **University of Haifa**, Department of Marine Geosciences, for the Seminar Program – Semester A (2021-22). Title of seminar: Coupling optical and acoustic remote sensing techniques in coral reef environments for geomorphological studies. 22 November 2021.

2021 – Invited lecturer at the **INES school** (International School on INtegrated Environmental Studies in the Arctic - University of Milano-Bicocca) on "Natural gas seepage in marine setting and implications in relation to climate change"

2019 – Invited lecturer at "**Jornadas del CUIA en Argentina**" X edition, 2-15 May 2018. Title of talk: Marine Geohazard and Implication for Offshore Resources Management: the experience in ConISMa for the MAGIC project" in collaboration with Prof. F.L. Chiocci.

EVALUATOR AND REFEREE

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

Proposal reviewer for National Science Foundation

Referee for the following journals: Frontiers in Marine Geosciences, Frontiers in Marine Sciences, Basin Research, Marine Geology, Journal of Continental Shelf Research, Marine and Petroleum Geology, Natural Hazards and Earth System Sciences, Deep-sea Research, Geodiversitas, Journal of Coastal Research, Geological Society of London (Spec. Pub.), Geosciences, Water, 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. Coordination of seabed exploration through the use of observational and work-class Remotely Operated Vehicles (ROV).

EMPLOYED GEOPHYSICAL DEVICES:

MultiBeam echosounders: R2Sonic2022; 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: EIVA NaviModel®; QPS® software package for navigation and data processing; PDS2000®; CARIS HIPS&SIPS®7.0; Triton Elics International (TEI) suite (Isis - DelphMap – DelphSeismic Plus); SonarWiz®; SB-Interpreter; Golden Software Surfer; RSI - Envi; Autodesk AutoCAD 2020 and autoCAD Raster design; Adobe Photoshop CC 2019; ArcView 3.2; ArcGis 10;

OUTREACH AND COMMUNICATION ACTIVITIES

- October 2021 – January 2022: member of the scientific team for the exhibition IllusiOcean: dove Scienza, Mare ed Illusioni si incontrano (<https://www.illusiocan.it/>).
- 27 May 2020: Interview on main national TV news (Italian Tg1) about the impact of plastic and microplastic in the marine environment, and the effects of the COVID-19 lockdown on marine and terrestrial ecosystems.
- 29 March 2018: Invited speaker during the communication event “*Oceani di Plastica e di Ghiaccio: un Viaggio attraverso racconti e proposte per salvare il mare* (Plastic and Polar Oceans: a Journey through stories and proposals to save the seas)” organised by the University of Milano-Bicocca.
- 8 June 2017: Communication event “Our ocean, our future”, scientific happy-hour for the “World Ocean Day” - member of the organizing committee.
- September 2018 and September 2019: Communication event “MARHE Lab” for “MEETmeTONIGHT Face to face with Research, the annual initiative included in the European Researchers’ night circuit and promoted by the European Commission in all European countries - member of the organizing committee.
- 2017: Communication event “dietro le quinte della ricerca in mare ” for “MEETmeTONIGHT 2017” - Coordinator.
- 2005: Interview on a national Radio (radio2) about the marine survey performed to search the ATR72 aircraft sunk offshore Palermo on 5 August 2005.
- 2004: Interview on national TV programme (Tg1 Mattina) about the biodiversity of cold-water corals in Mediterranean Sea (Santa Maria di Leuca cold-water province).
- 2004: Interview on a national TV programme (linea blu) on seafloor mapping activities on board R/V Universitatis.

TEACHING QUALIFICATION AND EXPERIENCE

- 2018 Achievement of the National Scientific Habilitation (ASN) to associate professor in applied geology, physical geography and geomorphology.
- 2017 Achievement of the National Scientific Habilitation (ASN) to associate professor in structural geology, stratigraphic geology, sedimentology and palaeontology.

Alessandra Savini joined the Department Geology and Geotechnologies (now joined with the Dept. of Earth and Environmental Sciences) at Milano Bicocca University as adjunct professor in 2005, just after the completion of her PhD, to promote the field of geo-marine sciences within the Department’s course of studies.

Alessandra Savini is also member of the **Internship Committee of the international MSc in Marine Sciences** where she coordinates stages and internship projects opportunities (of 4, 6 or 12 CFU) for all enrolled students, also exploiting ERASMUS+ grants.

Present-day teaching duties since A.Y. 2019/2020:

- **Fundamentals of Marine Physical Geography** (6 CFU) International MSc in Marine Sciences
- **Applied Marine Geology** (2 CFU) International MSc in Marine Sciences and MSc in Geological Sciences and Geotechnologies
- **Applied Geomorphology and Habitat** (2 CFU) International MSc in Marine Sciences and MSc in Geological Sciences and Geotechnologies
- **Introduzione alla geografia degli oceani** (4 CFU) BSc in Geological Sciences and Geotechnologies
- **Fondamenti di Geografia Fisica Marina** (2 CFU) MSc in Geological Sciences and Geotechnologies

A.Y. 2018/2019; A.Y. 2017/2018; A.Y. 2016/2017

- **Introduction to Marine Physical Geography** (4 CFU) International MSc in Marine Sciences
- **Applied Geomorphology and Habitat** (2 CFU) International MSc in Marine Sciences and MSc in Geological Sciences and Geotechnologies
- **Introduzione alla Geografia Fisica Marina** (2 CFU) MSc in Geological Sciences and Geotechnologies

A.Y. 2015/2016

- **Marine Geomorphology** (8 CFU) MSc in Geological Sciences and Geotechnologies

A.Y. 2014/2015

- **Marine Geomorphology I** (6 CFU) MSc in Geological Sciences and Geotechnologies
- **Geomorfologia marina II** (4 CFU) MSc in Geological Sciences and Geotechnologies

A.Y. 2011/2012

- **Laboratory in Marine Geomorphology** (8 CFU) MSc in Geological Sciences and Geotechnologies.
- **Marine Geomorphology I** (6 CFU) MSc in Geological Sciences and Geotechnologies.

A.Y. 2010/2011; A.Y. 2009/2010

- **Geomorfologia Marina** (II module – deep systems - 4 CFU) MSc in Geological Sciences and Geotechnologies
- **Laboratory in marine geomorphology** (8 CFU) – MSc in Geological Sciences and Geotechnologies

A.A. 2008/2009; A.A. 2007/2008

- **Marine geology II** (5 CFU) MSc in Geological Sciences and Geotechnologies
- **Laboratory in Coastal Marine Geology** – (5 CFU) MSc in Geological Sciences and Geotechnologies

A.A. 2005/2006

- **Marine geology II** (5 CFU) MSc in Geological Sciences and Geotechnologies

DOCTORATE SCHOOLS AND OTHER COURSES

Doctorate School in “**UAV/ROV and Immersive Virtual Reality for research in volcanically, tectonically and climatically sensitive areas**”, Milano-Bicocca University, October 2021, Milan, Italy. Member of the organizing committee.

2017-2020: Student tutoring within the framework of the **Erasmus+ 3DTeLC - Bringing the 3D world into the classroom: a new approach to teaching, learning and communicating the science of geohazard in terrestrial and marine environment** - 2017-2020, with field activity and frontal lectures on *on-shore, near-shore* and *offshore* geospatial data integration on coastal environment for geohazard assessment.

2020 - online Doctorate School in “**Seafloor mapping e Marine Management**”, Milano-Bicocca University, 15-16 October 2020, Milan, Italy. Doctorate School coordinator.

2019 - Training course in “**Mapping technologies in coral Reef environments**”, on behalf of the *Submarine Geomorphology Working Group* (<http://www.geomorph.org/submarine-geomorphology-working-group/> - IAG), organized at the MARHE center (<https://marhe.unimib.it/activities/education/mapping-technologies-in-coral-reefs-environments/>) organized in 2019 for Phd and Master students and professionals. Coordinator.

2011-2018: Tutoring for student internships in **Tropical Marine Ecology** (4 CFU) with field activities and lessons on geomorphology of coral-reef ecosystems (April 2011; October 2016; February 2017; February 2018).

2017 - Doctorate School in “**Seafloor mapping e Marine Resource Management**”, Milano-Bicocca University, 19-20 October 2017, Milan, Italy. Doctorate School coordinator.

2014-2017: Participation to Doctorate Committee in “Chemical, geological and Environmental Sciences” for the XXIX, XXX, XXXI e XXXII cycles at the University of Milano Bicocca.

2014 - Participation to the Doctorate Committee within the framework of the Doctorate School in Mediterranean Marine Sciences funded by the National Project RITMARE

2011: **“physical oceanography and coastal geomorphology”** for post-graduate specialization (II level University Master Degree) in “Marine Sciences for Sustainable Development” held at the MarHE Centre (Marine Research and High Education Centre), in Maldives.

2004-2005: **“seafloor mapping techniques”** (120 hours of frontal lectures and 40 hours of practical classes on board the R/V Universitatis), 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 - **“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 Marenostum foundation and under the sponsorship of “Archelogia viva”.

GRADUATE AND POST-GRADUATE STUDENT SUPERVISION

2021 – present: Post-doc fellowship – Milano Bicocca University funding (candidate Dr. Lca Fallati)

01/02/2017 – 31-12-2019: Post-doc fellowship – Milano Bicocca University funding (candidate Dr. Fabio Marchese)

2016-2019: PhD supervisor – University of Milano Bicocca, Dept. Of Earth and Environmental Sciences “monitoring land-sea interaction in coastal seas using remote sensing data across multiple spatial scales”. PhD student: Dr. Luca Fallati

15/05/2016 – 31/01/2017: Post-doc Fellowship within the frameowrk of RITMARE project (candidate Dr. Fabio Marchese).

2013-2016: PhD supervisor – University of Milano Bicocca, Dept. Of Earth and Environmental Sciences “a geomorphometric approach to assess multi-scale spatial distribution and geomorphological characterization of benthic habitats”. PhD student: Dr. Fabio Marchese.

1/1/2015 – 30/11/2015: Post-doc Fellowship within the frameowrk of CoCoNET project (candidate Dr. Valentina Alice Bracchi).

1/1/2014 – 31/12/2014: Oost-doc Fellowship Pithin the frameowrk of RITMARE project (candidate Dr. Valentina Alice Bracchi).

1/10/2013 – 31/12/2013: Post-doc Fellowship within the frameowrk of RITMARE project (candidate Dr. Valentina Alice Bracchi).

15/12/2012 – 15/12/2013: Post-graduate Fellowship within the frameowrk of RITMARE project (candidate Dr. Serena Palamara).

01/10/2012 – 30/11/2012: Post-graduate Fellowship within the frameowrk of CORALFISH project (candidate Dr. Fabio Marchese).

01/04/2012 – 30/09/2012: Post-graduate Fellowship within the frameowrk of MAGIC project (candidate Dr. Fabio Marchese)

01/05/2012 – 30/11/2012: Post-doc Fellowship within the frameowrk of CORALFISH project (candidate Valentina Alice Bracchi).

20/12/2010 – 15/11/2011: Post-graduate Fellowship within the frameowrk of MAGIC project (candidate Dr. Fabio Marchese)

16/08/2010 - 30/11/2010: Post-graduate Fellowship within the frameowrk of MAGIC project (candidate Dr. Fabio Marchese)

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

Co-supervisor of:

- more then 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.

PUBLICATIONS

BOOKS

SP.1 Micallef A; Krastel S; **Savini A** (eds.) (2018). Submarine Geomorphology. Springer.

ISI JOURNALS AND BOOK'S CHAPTERS:

SP.2 Bialik OM, Varzi AG, Durán R, Le Bas T, Gauci A, **Savini A** and Micallef A (2022) Mesophotic Depth Biogenic Accumulations ("Biogenic Mounds") Offshore the Maltese Islands, Central Mediterranean Sea. *Front. Mar. Sci.* 9:803687. doi: 10.3389/fmars.2022.803687

SP.3 Bonali, F.L.; Russo, E.; Vitello, F.; Antoniou, V.; Marchese, F.; Fallati, L.; Bracchi, V.; Corti, N.; **Savini, A.**; Whitworth, M.; et al (2022). How Academics and the Public Experienced Immersive Virtual Reality for Geo-Education. *Geosciences* 2022, 12, 9. <https://doi.org/10.3390/geosciences12010009>

SP.4 Argentino C., **Savini A.**, Panieri G. (2022) Integrating Fine-Scale Habitat Mapping and Pore Water Analysis in Cold Seep Research: A Case Study from the SW Barents Sea. In: Mienert J., Berndt C., Tréhu A.M., Camerlenghi A., Liu CS. (eds) *World Atlas of Submarine Gas Hydrates in Continental Margins*. Springer, Cham. https://doi.org/10.1007/978-3-030-81186-0_43.

SP.5 **Savini A.**, Krastel S and Micallef A (2021). Perspectives on Submarine Geomorphology: An Introduction. Reference Module in Earth Systems and Environmental Sciences, Elsevier, ISBN: 9780124095489 - <https://doi.org/10.1016/B978-0-12-818234-5.00192-9>.

SP.6 Micallef A., Krastel S and **Savini A.** (2021). Submarine Geomorphology. Geological Society, London, *Memoirs* (2021):M58-2021-2. <http://dx.doi.org/10.1144/M58-2021-2>

SP.7 Leoni B., Zanotti C., Nava V., Rotiroti M., Stefania G.A., Fallati L., Soler V., Fumagalli L., **Savini A.**, Galli P., Bonomi T. (2021) Fresh water system of coral inhabited island: availability and vulnerability (Magoodhoo Island of Faafu Atoll – Maldives). *Science of the Total Environment*, 785, 147313, <https://doi.org/10.1016/j.scitotenv.2021.147313>.

SP.8 Soldati, M.; Prampolini, M.; Foglini, F.; **Savini, A.** (2021) Landscapes and Landforms of Terrestrial and Marine Areas: A Way Forward. *Water*, 13, x, doi.org/10.3390/xxxxx

SP.9 Salio F., Meucci E., Allevi C., **Savini A.**, Imiete I.E., Della Pergola R. (2021) Evaluation of chitosan aggregates as pickering emulsifier for the remediation of marine sediments. *Chemosphere* (273) 129733. <https://doi.org/10.1016/j.chemosphere.2021.129733>

SP.10 **Savini, A.**; Bracchi, V.A.; Cammarosano, A.; Pennetta, M.; Russo, F. (2021) Terraced Landforms Onshore and Offshore the Cilento Promontory (South-Eastern Tyrrhenian Margin) and Their Significance as Quaternary Records of Sea Level Changes. *Water* 2021, 13, 566. <https://doi.org/10.3390/w13040566>

SP.11 Basso D. & **Savini A.** (2021) Shoreline changes in response to sea-level rise: Are Maldivian atolls really disappearing? In: Malatesta S, Schmidt di Friedberg M, Zubair S, Mohamed M and Bowen D (eds.) *Atolls of the Maldives: Nissology and Geography*. Rowman and Littlefield International – Book Series – Rethinking the islands. Chapter 10. ISBN 978-1-78660-661-7

SP.12 Prampolini M. **Savini A.**, Foglini F., Soldati M. (2020) Seven Good Reasons for Integrating Terrestrial and Marine Spatial Datasets in Changing Environments. *Water* 2020, 12, 2221.

SP.13 Fallati L., Saponari L., **Savini A.**, Marchese F., Corselli C. Galli, P. (2020) Multi-Temporal UAV Data and Object-Based Image Analysis (OBIA) for Estimation of Substrate Changes in a Post-Bleaching Scenario on a Maldivian Reef. *Remote Sens.* 2020, 12, 2093

SP.14 Marchese F., Bracchi V.A., Lisi G., Basso D., Corselli C. & **Savini A.** (2020). Assessing Fine-Scale Distribution and Volume of Mediterranean Algal Reefs through Terrain Analysis of Multibeam Bathymetric Data. A Case Study in the Southern Adriatic Continental Shelf. *Water* 12(1):157 DOI:10.3390/w12010157

SP.15 Fallati L., Polidori A., Salvatore C., Saponari L., **Savini A.**, Galli P. (2019). Anthropogenic Marine Debris assessment with Unmanned Aerial Vehicle imagery and deep learning: A case study along the beaches of the Republic of Maldives. *Science of the Total Environment* 693 (2019) 133581. <https://doi.org/10.1016/j.scitotenv.2019.133581>

- SP.16** Foglini F, Grande V, Marchese F, Bracchi VA, Prampolini M, Angeletti L, Castellan G, Chimienti G, Hansen IM, Gudmundsen M, Meroni AN, Mercorella A, Vertino A, Badalamenti F, Corselli C, Erdal I, Martorelli E, **Savini A** and Taviani M (2019). Application of Hyperspectral Imaging to Underwater Habitat Mapping, Southern Adriatic Sea. *Sensors* (19) 2261; doi:10.3390/s19102261
- SP.17** Boavida JRH, Becheler R, Choquet M, Frank N, Taviani M, Bourillet JF, Meistertzheim AL, Grehan A, **Savini A**, Arnaud-Haond S, (2019). Out of the Mediterranean? Post-glacial colonization pathways varied among cold-water coral species. *J Biogeogr.* 2019;46:915–931. <https://doi.org/10.1111/jbi.13570>
- SP.18** Bracchi V.A., Basso D., **Savini A.** and Corselli C. (2019). Algal reefs (Coralligenous) from glacial stages: origin and nature of a sub-merged tabular relief (Hyblean Plateau, Italy). *Marine Geology* (411) 119-132.
- SP.19** Bonali FL, Tibaldi A, Marchese F, Fallati L, Russo E, Corselli C, **Savini A** (2019). UAV-based surveying in volcano-tectonics: an example from the Iceland rift. *J. Struct. Geol.* (121) 46–64.
- SP.20** Lo Iacono C., **Savini A.**, Huvenne V.A.I, Gracia E (2019) Habitat 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.21** **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.22** 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.23** 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.24** 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.25** 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.26** 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.27** 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.28** Marchese, F., Bracchi, V.A., Basso, D., Corselli, C., **Savini, A.** (2017) Using geomorphometric techniques to assess spatial distribution and volume of coralligenous bioconstructions (Mediterranean Sea). *IMEKO TC19 Workshop on Metrology for the Sea, MetroSea 2017: Learning to Measure Sea Health Parameters 2017-October*, pp. 252-254.
- SP.29** **Savini, A.**, Taviani, M., Marchese, F., (...), Freiwald, A., Sarrazin, J. (2017) Measuring growth structure of reef frameworks in Mediterranean deep-water coral-topped mounds. *IMEKO TC19 Workshop on Metrology for the Sea, MetroSea 2017: Learning to Measure Sea Health Parameters 2017-October*, pp. 101-103
- SP.30** 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
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