

PERSONAL INFORMATION

Alessandro Bosman



Istituto di Geologia Ambientale e Ingegneria (IGAG), Consiglio Nazionale delle Ricerche, Struttura di Ricerca Congiunta presso il Dipartimento di Ingegneria Civile, Edile e Ambientale (DICEA), Sapienza, University of Rome.

Phone
e-mail
Date of birth
Nationality



WORK EXPERIENCE

Date From 2007 to present

Name and address of employer

Istituto di Geologia Ambientale e Geoingegneria (IGAG), Consiglio Nazionale delle Ricerche, Struttura Congiunta presso il Dipartimento di Ingegneria Civile Edile e Ambientale (DICEA), Area Geofisica, Sapienza, University of Rome Via Eudossiana 18 - 00184, Italy.

Business or sector
Occupation or position held
Main activities and responsibilities

Earth science research
Senior Scientist (I Researcher n. 10527).
Collaboration in the implementation of the tender and acquisition, processing and restitution protocols for H-R multibeam and LIDAR bathymetry in shallow water to national seagrass mapping in the MER Project (ISPRA).
Coordinator of national projects for the extensive seafloor mapping of the Italian seas.
Coordinator of high-resolution geophysical activities for habitat mapping.
Expertise of high-resolution geophysical data processing activities for the seafloor morphological analysis.
Principal Investigator for the National Civil Protection Department for national emergencies. He was coordinator of the drafting and definition of national protocols for the collection and processing of high resolution multibeam geophysical data in the National Research Council, nine Italian University and other Institute of research for research activities of seafloor hazard assessment.
Expertise in analysis of the morphological features of the seafloor in relation to the physical processes that act on the seafloor. Habitat mapping and analysis of physical processes from very high multibeam bathymetry and backscatter (seafloor and water column) data.
Very high-resolution mapping and morphological analysis of seagrass meadows: assessment and volumetric analysis of biomass from high-resolution 3D models micro-bathymetry and seismic profiles for blue carbon analysis (canopy and matte).
Morphological and morpho-structural analysis of rocky outcrops, submarine volcanic morphological features analysis, fluvial sedimentary processes analysis, active sedimentary processes characterization in shallow water by means of high-resolution geophysical equipment (multibeam bathymetry, seafloor and water column backscatter, seismic profiles).
Technical coordinator for the photogrammetric surveys of the coastal belt using UAV systems (PPK) for the habitat mapping in shallow waters, also for GNSS data processing activities.
Responsibilities: Principal Investigator and Research Unit coordinator.

Date
Name and address of employer
Business or sector
Occupation or position held

January 1, 2023 to the present
CNR-IGAG
Earth science research
Senior Scientist (<http://www.dcp.cnr.it/DPUASI/LibroMatricolaACE/FindDIPID.asp>)

Name and address of employer

Istituto di Geologia Ambientale e Geoingegneria (IGAG), Consiglio Nazionale delle Ricerche (CNR), Dipartimento di Idraulica trasporti e Strade (DICEA), Sapienza University of Rome, Via Eudossiana 18 - 00184, Italy.

Date
Business or sector
Occupation or position held

July 2, 2007 - December 31, 2022
Earth science research
Researcher (n. 10527).

Main activities and responsibilities	Coordinator of national projects on seafloor mapping for geo-hazard assessment. Marine geophysics applied to seafloor and habitat mapping through ultra-high resolution bathymetry. Advanced processing for ultra-high resolution digital models generation, backscatter of the seafloor and water column processing and analysis. Analysis of morpho-sedimentary processes in rivers (Tiber and Po) and deltaic systems. Seafloor mapping and habitat (seagrass) in shallow and very shallow water area by means very high resolution multibeam bathymetry (DEMs and backscatter) and long-range side scan sonar data, high resolution mono channel seismic profilers and high-resolution photogrammetric survey from UAV in PPK mode. Acquisition, processing and interpretation of geophysical data, Analysis of physical processes of the seafloor. Surveyor of the 1:50,000 geological sheet of the Stretto di Messina, acquisition and analysis of geophysical data and seafloor sampling.
Date	June 2022 - 2025
Name and address of employer	Carries out teaching support activities as " <i>culture della materia</i> " in Geodesy and Geomatics at Sapienza University of Rome at DICEA.
Date	April 2004 - June 2007
Name and address of employer	Earth Science - Dipartimento di Scienze della Terra, Sapienza University of Rome, P. le A. Moro 5 00185 Rome, Italy.
Business or sector	Research activity
Occupation or position held	Postdoc
Main activities and responsibilities	Research activity in marine geophysics and marine geology, seafloor mapping of the submarine volcaic Islands (Pontine, Eolie and Ischia Islands). Active sedimentary processes characterization long shore, in rivers and delta front. Risk assessment and scenarios related to instability phenomena along the submarine volcanic complex and active faults.
Date	January 2002 - March 2004
Name and address of employer	Earth Science - Dipartimento di Scienze della Terra, Sapienza University of Rome, P.le A. Moro 5 00185 Rome, Italy.
Business or sector	Research activity
Occupation or position held	Research associate scientist
Main activities and responsibilities	Research activity in marine geophysics and marine geology, seafloor mapping of the submarine volcaic Islands (Pontine, Eolie and Ischia Islands). Active sedimentary processes characterization long shore, in rivers and delta front. Risk assessment and scenarios related to instability phenomena along the submarine volcanic complex and active faults. Surveyor of the 1:50,000 geological sheet of the Pontine Islands, acquisition and analysis of geophysical data and seafloor sampling.
Date	January 2001- January 2002
Name and address of employer	Earth Science - Dipartimento di Scienze della Terra, Sapienza University of Rome, P.le A. Moro 5 00185 Rome, Italy.
Business or sector	Research activity
Occupation or position held	Research contract
Main activities and responsibilities	Research activity on morphological and sedimentological characterization and analysis of the coastal lakes of Lazio. Acquisition and analysis of high-resolution geophysical data to search for sandy deposits for coastal nourishments. Analysis of side scan sonar data for seagrass mapping.
Date	July 1999-December 2001
Name and address of employer	Earth Science - Department, Sapienza University of Rome, P.le A. Moro 5 00185 Rome, Italy
Business or sector	Research activity
Occupation or position held	Research contract
Main activities and responsibilities	Technical and scientific secretariat in the GNV research project n. 15. Research activity in knowledge of the submerged portions of Italian volcanoes and evaluation of volcanic risk potential
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EDUCATIONAL AND TRAINING	
Date	2000 -2003
Name and type of organization providing educational and training	Tor Vergata University, Rome, Italy
Title of qualification awarded	PhD Geo-Information XVI- Department of Computer, Systems and Production Engineering. The doctoral program in Geoinformation provided deep competence and experience in the generation, analysis and application of bio/geo/physical and environmental processes.
Dissertation Title	

Advisor	Processing, analysis, and interpretation of high-resolution long-range side scan sonar and multibeam bathymetry data of the submarine instability phenomena along the volcanic islands (Pontine Archipelago, Ischia and Stromboli Islands). Prof. M.A. Marsella and Prof. D. Solimi PhD coordinator.
Date	2000
Name and type of organization	Consiglio Nazionale dei Geologi
Title of qualification awarded	Qualified as a National Geologist through National state test
Date	1999-2000
Name and type of organization providing educational and training	Sapienza University of Rome, Department of Earth Sciences, P.le A. Moro 5 - 00185 Rome, Italy
Title of qualification awarded	University Bachelor's degree
Dissertation Title	Long range Side Scan Sonar TOBI (Towed Ocean Bottom Instrument) data analysis of the continental margin of Pontine Archipelago (Tyrrhenian Sea, Italy).
Advisor	Prof. G.B. Lamonica, Dr. F. Chiocci
Date	1991
Name and type of organization providing educational and training	Morgagni, Tozzi, Rome, Italy
Title of qualification awarded	Scientific lyceum 42/60
Drone flight license (UAV) Drone Pilot Certificate	
2020	Critical Operations (C.R.O) "scenario-based training" UAS/UAV Remote Pilot Certification (Remotely piloted Aerial Vehicles > 4 kg). A1/A3 A2
2019	Fixed-Wing UAV Remote Pilot Certification
2019	UAS/UAV Remote Pilot Certification (Remotely piloted Aerial Vehicles < 4 kg), Visual Line of Sight (VLOS),
Driver's license	
1990	B car and A motorcycle
RESEARCH ACTIVITIES	
Research fields	<p>Currently a marine geoscientist with an interest in marine geophysics research activities using very high-resolution data (multibeam bathymetry, backscatter, water column, side scan sonar, mono channel seismic), sampling and monitoring techniques of the seafloors.</p> <p>Expertise in high-resolution habitat and seafloor mapping to characterize the P. oceanica meadows by means high-resolution geophysical and optical data. Characterization of the seafloor by means mapping through high resolution geophysical data of Benthic fauna and impacts on the seabed in shallow and deep water (shelves, slopes and volcanic islands)</p> <p>Interest in volcanic and sedimentary environments, especially for understanding the physical processes interacting on the seafloor morphologies (active sedimentary processes, time-lapse multibeam bathymetry, analysis of physical processes).</p> <p>Expertise in river and delta mapping from very high-resolution multibeam data where the physical processes are very fast and complex (erosional and depositional processes).</p> <p>Expertise in seafloor mapping of active volcanic complexes, including shelves and continental slopes environments. Morphological and morphostructural analysis features related to the marine geo and biohazards assessment.</p> <p>High interest in analyzing high-resolution geophysical data to identify morphological features related to submarine small- to medium-sized instability processes. Analysis of processes of submarine landslide activation, transport, and deposition of landslide debris. Residual hazard analysis.</p> <p>In my field of research, I also deal with high-resolution multibeam and seismic data processing to improve data interpretation for a better analysis of physical processes.</p>
Technology fields	<p>Great expertise in applied geophysics (acquisition) in submerged environment, high-resolution environmental monitoring techniques in the Seas, rivers and lakes in both shallow and deep water.</p> <p>Great expertise of high-resolution multibeam processing data (bathymetry, backscatter and water column), Side Scan Sonar and mono-channel seismic (Chirp, Sparker and unibeam sources).</p> <p>Expertise in acquisition, processing and analysis of GNSS data and IMU sensor data for UAV and multibeam systems.</p> <p>Experience with geomatics and remote sensing techniques to seafloor and habitat mapping in shallow and very shallow water relating to sea level changes in coastal areas.</p> <p>In recent years, my research has focused on studying in coastal shallow water areas. Specifically in delta, river and in very shallow water environments to habitats mapping of by drone photogrammetry. Acquisition, processing and analysis of tide gauge and GNSS data for multibeam data correction.</p>

Recent Scientific Activities
 Projects/activities

- Digital data processing, fusion and matching of LIDAR Bathymetry, LIDAR, multibeam data and point cloud from UAV photogrammetry.
 Expertise of post-processing UAV photogrammetry data. Bathymetric data monitoring and validation (multibeam from vessel, AUV and aerial platforms) with special reference to bathymetric elevations and its references.
- 2023 Study and characterization of landslide phenomena on a request for activation of the Centers of Expertise for the emergency in Emilia Romagna, received through a note from the Deputy Head of the Department of Civil Protection (Prot. No. 158634 of 25/05/2023). Drone surveys and surveys on hydrogeological disruptions and cartographic support for the areas affected by the flood events of May 16-17, 2023. GNSS surveys, photogrammetric restitution of high-resolution digital models and interpretation of geological models. Inspections and drafting of sheets on residual geological risk. Involved institutions: CNR-IGAG, CNR-IRPI, ISPRA and DPC.
- Activities on behalf of the MASE for the definition and validation of the monitoring of the Project for the construction of the New Breakwater of the Port of Genoa on the construction of the Genoa breakwater as a member of the technical evaluation committee. Study on the geomorphology of the seafloor. Measure No. 284. No. Prot. 114534/2023.
- 2020 National emergency of national Civil Protection Department (DPC): Balle CSS (secondary solid fuel - SSF). Removal of secondary solid fuel (SSF) in the Gulf of Follonica (Italy) through seafloor mapping by very high-resolution multibeam bathymetry. The CNR-IGAG together ISPRA supported the Civil Protection and the Navy, to identify and recover 40 secondary solid fuel scattered on the seafloor between Elba Island, Piombino and Follonica villages.
 Main activity: Principal Investigator, coordination of high-resolution geophysical activities for seafloor mapping. Involved institutions: DPC, CNR-IGAG, ISPRA, IIM, Navy, ARPA Toscana and ARPA Sicilia.
- 2019 MARINE STRATEGY: analysis and characterization of the Italian seafloor through high-resolution geophysical activities in relation to the activities foreseen in modules 7 (coralligenous habitats), 8 (Maerl / rhodolite seabed), 9 (seafloor habitats subjected to physical damage) and 10 (Posidonia oceanica meadows habitat). Analysis and quality control of geophysical data collected by the Italian national agencies (ARPA) and drafting of protocols for high-resolution geophysical data acquisition.
 Main activity: Principal Investigator and coordinator of geophysical activities for habitat mapping. Involved institutions: ISPRA, CNR-IGAG.
- Development of a hydro-geophysical model for estimating environmental vulnerability: a new tool for mapping salinity on coastal aquifers. Research project of Ateneo (University), settore ERC: PE10_7 - Physics of earth's interior, seismology and volcanology. Involved institutions: Sapienza DICEA, CNR-IGAG.
- 2018 MorFRESTORE project, development of an innovative "one-line" numerical model for the study of the long-term morphological evolution of beaches subjected to storm surges defended and not defended. Optimization of the management methods of the coast between Capo d'Anzio and the Circeo aimed at safeguarding the coasts and the dunes of the Circeo national park. Involved institutions: CNR-IGAG, DICEA Sapienza University of Rome, University of Aquila, ISPRA 2.5 years.
- 2017 SIC Project, Sites of Community Interest of the Calabrian Sea (Tyrrhenian and Ionian Sea), high-resolution multibeam bathymetry for seabed and habitat mapping. Seagrass mapping for ARPA National Institution of Southern Italy. (Principal Investigator). Involved institutions: CNR-IGAG, ISPRA, UNICAL University of Calabria, ARPA Calabria. 2 years. Protocollo 0001766.da ARPACAL date 23/04/2018.
- 2017 SAVEMEDCOASTS project, sea level rise scenarios along the Mediterranean coast sea level rise scenarios along the Mediterranean coasts. Focuses on the prevention priority program of the European Commission A4 – Civil Protection Policy and aims to respond to the need for people and assets prevention from natural disasters in Mediterranean coastal areas undergoing to increasing sea level rise and climate change impacts. Involved institutions: INGV, CNR-IGAG. 2 Years.
- 2016 SEISMOFAULTS, Exploring the seismic faults of the Ionian Seafloor, www.seismofaults.it, as CO-PI. Involved institutions: CNR-IGAG, ISMAR, Sapienza Univ. of Rome, INGV. (2016 to present).
- 2016 Seabed and Habitat mapping in North Adriatic Sea of CNR National Project (Principal Investigator). Involved institutions: CNR-IGAG, ISMAR, IIM, Univ. of Bologna. 3 years.
- 2015 Seabed characterization of North Adriatic Sea at small and large scale. Involved institutions: CNR-IGAG, Hydrographic Institute of the Navy. 2 Years.

	<p>PANTER project, PANTelleria High-energy ERuptions from marine studies, Grant agreement no. 312762 - EUROFLEETS, Pantelleria Island (Sicily Channel). Involved institutions: CNR-IGAG, Univ. of Bologna, Ulster University, Northern Ireland. 2 years.</p> <p>SCANCOAST Study and monitoring of coastal area (Cinque Terre National Park, Liguria, Italy) to characterize the instability phenomena through marine laser scanning and high resolution multibeam bathymetry techniques. Involved institutions: CNR-IGAG, INGV.2 years.</p>
2014	<p>Fiumicino Project (Principal Investigator). High-resolution seafloor mapping of Fiumicino mouth (Tiber River). Characterization of the main morphological features (sandbanks, wrecks, etc.) for navigation safety of rescue boats for Fiumicino International Airport. Erosional and depositional processes of sedimentary bodies, implications on hydrodynamic circulation on the mouth. Involved institutions: CNR-IGAG, Regional Civil Protection Department. 1 year.</p>
2013	<p>Volcanological projectV3, INGV-DPC V3, Multidisciplinary analysis of the relationships between tectonic structures and volcanic activity (Aeolian Island, Italy). Involved institutions: CNR-IGAG, Univ. of Bologna. 2 years.</p>
2013	<p>RITMARE Project. (Principal Investigator) Planning of the Maritime Space in Coastal Waters. Evolution, morphological structure and sedimentary balance, development of methodologies for high-resolution morpho-bathymetric survey in shallow water. Involved institutions: CNR-IGAG, ISMAR, IAMC, Univ. of Bologna, Univ. of Trieste. 5 years.</p>
2012	<p>Costa Concordia Emergency, scientific coordinator (P.I.) of marine geology activities to characterize the seafloor morphology located below the Concordia wreck. Institutions involved CNR-IGAG, National Civil Protection Department. 2 years.</p>
2006	<p>MAGIC project, Marine Geohazard along the Italian Coasts. National coordinator of the acquisition and processing working group of the seafloor mapping of the Italian Coasts. Involved institutions: CNR-IGAG, ISMAR, IAMC, 9 Italian Universities National Civil Protection Department. 1 year. 6 years.</p>
2004	<p>Volcanological project V3_6 – Etna UR v3_6/06. High-resolution multibeam bathymetry in shallow water along the submerged flank of Etna Volcano. Characterization of the main morpho-structural features related to geo-hazard: faults, tension crack, submarine landslides, etc. Involved institutions: CNR-IGAG, Sapienza Univ. of Rome, INGV. 2 years.</p>
From 2002 to 2014	<p>Activities to support establishment of a sea floor monitoring station project, to locate gas hydrates in the Gulf of Mexico Hydrate Research Consortium, administered by Center for Marine Resources and Environmental Technology, University of Mississippi. Monitoring through high resolution multibeam and seismic sources on Autonomous Underwater Vehicles in MC118 and MC792 blocks (Gulf of Mexico).</p>
From 2002 to 2017	<p>Seafloor monitoring of the Sciara del Fuoco (Stromboli Island, Italy) on behalf of the National Civil Protection Department after the submarine landslide and tsunami event of December, 30 2002.</p> <p>Mentor and co-tutor of 38 Master's Degree and Bachelor's Degree in Earth Sciences, environment Engineering, Natural Science and Environmental Sciences.</p>
Field Experience University From 2004 to present	
Field Experience Oceanographic cruise	
2021	<p>May - PICNIC I LEG. Scientific Cruise. R/V Litus CNR, Scientific Party Chiefs: A. Bosman. North Adriatic Sea. Research activity on the Po River delta front. Monitoring and morphological analysis of the seafloor by time-lapse multibeam bathymetry and sampling.</p>
2020	<p>October - Marine Strategy Project for ISPRA Institution. R/V Astrea, Scientific Party Chief: A. Annunziatellis, Tyrrhenian Sea (Channel between Elba and Corsica Islands), Collection of high-resolution geophysical data (EM 2040 400 kHz), side scan sonar and video inspections for habitat mapping.</p> <p>September - CSS EcoBalle Project for National Civil Protection. R/V Astrea, Scientific Party Chief: Dr. A. Bosman, Tyrrhenian Sea, Collection of high-resolution geophysical data (EM 2040 400 kHz).</p>
2018	<p>April - SEISMOFAULTS2017 Scientific Cruise, R/V Dallaporta, Scientific Party Chief: Marco Cuffaro, Ionian Sea, April 2017 Collection of geophysical data, OBSH recovery.</p>

- November - SIC1 Scientific Cruise, R/V Astrea, Scientific Party Chiefs: Dr. R. Di Mento, Dr. Alessandro Bosman. High-resolution multibeam bathymetry (bathymetry, backscatter and water column data) for habitat mapping on seagrass meadow. South Tyrrhenian Sea.
- 2017 October - SIC 2 Scientific Cruise, R/V Astrea, Scientific Party Chiefs: Dr. R. Di Mento and Dr. Alessandro Bosman. High-resolution multibeam bathymetry (bathymetry, backscatter and water column data) for habitat mapping on seagrass meadow. Southern Tyrrhenian sea.
- September - SIC 3 Scientific Cruise, R/V Astrea, Scientific party Chiefs: Dr. R. Di Mento and Dr. Alessandro Bosman. High-resolution multibeam bathymetry (bathymetry, backscatter and water column data) for habitat mapping on seagrass meadow. Ionian Sea.
- May - SEISMOFAULTS2017 Scientific Cruise, R/V Dallaporta, Scientific Party Chief: Dr. M. Cuffaro, Ionian Sea, 2017, OBSH deployment and recovery.
- April - SEISMOFAULTS2017 Scientific Cruise, R/V Minerva Uno, Scientific party Chief: M. Cuffaro, Ionian Sea, May 2017 Collection of high-resolution geophysical data, OBS deployment.
- 2016 May – June. Scientific Cruise Ritmare on R/V IIM boat. Scientific Party Chiefs: A. Bosman. North Adriatic Sea. Research activity on the Po River delta front. Monitoring and morphological analysis of the seafloor by time-lapse multibeam bathymetry and sampling.
- 2014 September. Scientific Cruise Ritmare on R/V Litus CNR. Scientific Party Chiefs: A. Bosman. North Adriatic Sea. Research activity on the Po River delta front. Monitoring and morphological analysis of the seafloor by time-lapse multibeam bathymetry and sampling
- February - ZHF Zannone Hydrothermal Field Scientific Cruise, R/V Minerva Uno, party Chief: Dr. Eleonora Martorelli I LEG and Dr. Alessandro Bosman II LEG. Seafloor sampling, high-resolution multibeam bathymetry (backscatter and water column data), Monochannel seismic data (Chirp and Sparker), gravimetric and magnetic survey. 27/05/2014-04/06/2014.
- 2013 May - BOLLE Scientific Cruise, R/V Urania, party Chief: Dr. E. Martorelli. Seafloor sampling, ROV, Seismic data (Chirp and Sparker).
- February - TYGRAF, Tyrrhenian Gravity Flows, R/V Urania, Party Chief: Dr. A. Bosman. Seafloor sampling, ROV, high-resolution multibeam bathymetry (water column and backscatter data), Seismic data (Chirp and Sparker), Side Scan Sonar and ADCP. 12/02/2013 - 27/02/2013.
- June - Pantelleria shallow water. Small boat in Strait of Sicily. Party Chief: Dr. A. Bosman. Multibeam bathymetry in very shallow water for seafloor mapping. 15/06/2013 - 30/06/2013.
- May - Po della Pila shallow water. Small boat in north Adriatic. Party Chief: Dr. A. Bosman. Multibeam, bathymetry in very shallow water for seafloor mapping 20/05/2013 - 07/06/2013.
- 2012 June - Scientific Cruise Ritmare on small boat. Scientific Party Chiefs: A. Bosman. North Adriatic Sea. Research activity on the Po River delta front. Monitoring and morphological analysis of the seafloor by time-lapse multibeam bathymetry and sampling.
- May - Costa concordia DPC Emergency III survey. Small boat at Giglio Island. National emergency for the Civil Protection Department after the sinking of the Costa ship. 06/05/2012 - 07/05/2012.
- April - Costa concordia DPC Emergency II survey. Small boat at Giglio Island. National emergency for the Civil Protection Department after the sinking of the Costa ship. 23/04/2012 - 29/04/2012.
- March - Costa concordia DPC Emergency I survey. Small boat at Giglio Island. National emergency for the Civil Protection Department after the sinking of the Costa ship. 28/03/2012 - 31/03/2012.
- February - Magic 06, R/V Urania, Party Chief: Dr. A. Bosman. Seafloor sampling, ROV, high-resolution multibeam bathymetry (backscatter data), Seismic data (Chirp and Sparker), Side Scan Sonar. 14/02/2012 - 25/03/2012.
- January - Magic 05, R/V Urania, Party Chief: Dr. A. Bosman. Seafloor sampling, high-resolution multibeam bathymetry, Seismic data (Chirp and Sparker), Side Scan Sonar. 04/01/2012 - 10/01/2012.
- 2011 August - Magic 03 R/V Urania, Party Chief: Dr. A. Bosman. Seafloor sampling, high-resolution multibeam bathymetry (backscatter data), Seismic data (Chirp and Sparker), Side Scan Sonar. 13/08/2011 - 25/08/2011.

- January - Magic 04 R/V Urania, Party Chief: Dr. A. Bosman. Seafloor sampling, high-resolution multibeam bathymetry (backscatter data), Seismic data (Chirp and Sparker), Side Scan Sonar.
- January - February March. Tiber River II Leg. Party Chief: Dr. A. Bosman. High-resolution geophysical surveys (MBES, SBP, SSS, SPK) and sampling. Survey from the mouth of the Castel Giubileo of about 65 km.
- 2010 December - Magic 02a R/V Minerva Uno, Party Chief: Dr. A. Bosman. Seafloor sampling, high-resolution multibeam bathymetry (backscatter data), Seismic data (Chirp). 05/12/2010 - 16/12/2010
- December - Magic 02b R/V Mariagrazia Uno, Party Chief: Dr. A. Bosman. High-resolution multibeam bathymetry (backscatter data) and Seismic data (Chirp). 29/12/2010 - 16/11/2010.
- September - La Maddalena Emergency II Leg. Party Chief: Dr. A. Bosman. Small boat at La Maddalena Island to reception facilities for the G8 event Island. National emergency for the Civil Protection Department after the sinking of the Costa ship. 26/09/2010 - 03/10/2011.
- February - EOLARC. R/V Urania. High-resolution geophysical survey and sampling of the submerged areas of the Aeolian Islands (Stromboli, Lipari, Vulcano and Panarea). 16/02/2010 - 01/03/2010.
- July - Tiber River I Leg. Party Chief: Dr. A. Bosman. High-resolution geophysical surveys (MBES, SBP, SSS, SPK) and sampling. Survey from the mouth (Sacra Island) to the Castel Giubileo of about 65 km.
- 2009 October - Magic 01 R/V. Mariagrazia, Party Chief: Dr. A. Bosman. High-resolution multibeam bathymetry (backscatter data) and Seismic data (Chirp).
- October - BOB Woolsey. R/V Urania. High-resolution geophysical surveys (MBES, SBP, SSS and sparker), sampling (gravity corer and dredging) and ROV, in southern Tyrrhenian and Ionian Sea. 24/10/2009 - 10/11/2009.
- July - Etna Geophysic. R/V Copernaut Franca. Party Chief: Dr. A. Bosman. Seismic survey by means Sparker 5 kJ along the continental slope of the Etna volcano.
- July - Magic R/V. Universitatis, Party Chief: Dr. A. Bosman. High-resolution multibeam bathymetry (backscatter data) and Seismic data (Chirp). Sampling: dredging and gravity corer. 08/06/2009 - 15/06/2009.
- 2008 April - La Maddalena Emergency I Leg. Party Chief: Dr. A. Bosman. High resolution geophysical surveys (Multibeam, SSS and Chirp) at La Maddalena Island to reception facilities for the G8 event Island. National emergency for the Civil Protection Department after the sinking of the Costa ship. 03/04/2008 - 10/03/2008.
- November - Passito. R/V Urania. High-resolution geophysical surveys (MBES, SBP, SSS and sparker), sampling (gravity corer and dredging) and ROV, in southern Tyrrhenian and Ionian Sea. 24/10/2009 - 10/11/2009.
- 2007 November - Kalet. R/V Urania. High-resolution geophysical surveys (MBES, SBP, SSS and sparker), sampling (gravity corer and dredging) and ROV, in southern Tyrrhenian and Ionian Sea. 27/11/2007 - 10/12/2007.
- September - MeRC II LEG. R/V. Universitatis. High-resolution multibeam bathymetry and seismic data (Chirp). Sampling: dredging and gravity corer in the Ionian Sea (Submarine geological map of the Messina Strait). 17/09/2007 - 22/09/2007.
- 2006 November - Zibibbo. R/V Urania. High-resolution geophysical surveys (MBES, SBP, SSS and sparker), sampling (gravity corer and dredging) and ROV, along the submarine volcanic complex of Pantelleria Island. 09/11/2006 - 21/11/2006.
- June - MeRC I LEG. R/V. Universitatis. High-resolution multibeam bathymetry and seismic data (Chirp). Sampling: dredging and gravity corer in the Ionian Sea (Submarine geological map of the Messina Strait). 17/06/2007 - 22/06/2007.
- February – April. Tiber river. First high-resolution morphological seismic and sampling characterization of the Tiber River from the mout (Fiumara Grande) to the Grillo Bridge. 80 km of multibeam, side scan sonar, chirp and sparker. DITS University of Rome (Prof. M. Bernabini).

	<p>January - Cirò Marina Emergency DPC II Leg. Party Chief: Dr. A. Bosman. Seismic survey (Sparker and SBP) along the continental shelf of the Ionian Sea.</p>
2005	<p>December. Idducore. Sampling (Core and dredging) and geophysical (multibeam, chirp and sparker) survey along the Aeolian Islands. 27/12/2005 - 09/01/2006.</p> <p>Novembre - 1908. R/V Universitatis. High-resolution multibeam bathymetry and seismic data (Chirp). Sampling: dredging and gravity corer in the Ionian Sea (Submarine geological map of the Messina Strait). 30/11/2005 - 15/12/2005.</p> <p>August – Vertical Linear Array. R/V Universitatis. High-resolution multichannel (Airgun – watergun) seismic and sparker along the submarine slope of the Ischia and Stromboli Islands for morpho structural analysis. CNR and USA Mississippi University consortium program. 10/06/2005 – 24/08/2005.</p>
2004	<p>November - Cirò Marina Emergency DPC I Leg. Party Chief: Dr. A. Bosman. High resolution Multibeam survey (Sparker and SBP) along the continental shelf of the Ionian Sea.</p> <p>January - San Silverio. R/V. Universitatis. High-resolution seismic data (SBP Chirp) and Sampling (dredging and gravity corer) in the southern Thyrrenyan and Ionian Sea (geological map of the Messina Strait, and Etna offshore investigation). 27/01/2004 - 15/02/2004</p> <p>July – Iddusub Emergency DPC. Small Boat. Scua diving and sampling of the seafloor around the Stromboli Island within the GNV15 project. 15/07/2004 – 22/07/2004.</p>
2003	<p>February – Iddu03. R/V Urania. Emergency DPC. Monitoring of the submerged portion of Stromboli Island by high-resolution multibeam bathymetry, subsequently to the instability and tsunami event along the Sciara del Fuoco. 30/01/2003 – 9/02/03.</p> <p>September – Elonora. R/V Urania. Geophysical characterization and sampling of the continental margin of the Pontine Islands. 18/09/2003 – 6/10/2003.</p> <p>March – Iddutu. R/V Thetis. Monitoring of the submerged portion of Stromboli Island by high-resolution multibeam bathymetry, subsequently to the instability and tsunami event along the Sciara del Fuoco. 21/03/2003 – 24/03/2003.</p> <p>April – Iddutri. R/V Thetis. Monitoring of the submerged portion of Stromboli Island by high-resolution multibeam bathymetry, subsequently to the instability and tsunami event along the Sciara del Fuoco. 4/04/2003 – 10/04/2003.</p>
2002	<p>February – Aeolian Island. R/V Thetis. Monitoring of the submerged portion of Stromboli Island by high-resolution multibeam bathymetry. GNV n.15 Project. Knowledge of the submerged portions of Italian volcanoes.</p>
2001	<p>October – November. R/V Urania. Geophysical characterization and samplings of the shelf and continental slope of the Pontine Islands. 26/10/2001 – 15/11/2001.</p>
1998	<p>September – Tivoli Cruise. R/V Urania. Towed ocean bottom instrument (TOBI), deep long-range side scan sonar along the Italian volcanic islands (Stromboli, Marsili, Ischia and Pontine Islands). CNR – UK NOC scientific activities. 1/09/1998 – 30/09/1998.</p>
Since 1998	<p>In the last 20 years Party Chief in over fifty research surveys on small boats for very high resolution multibeam bathymetry (RTK-PPK GNSS), seismic surveys and sampling along the Italian coasts, volcanic Islands and rivers (Tiber and Po rivers). In addition, it has participated in numerous scientific research cruises in the Mediterranean Sea.</p>
Publication Overview	<p>Publication interval 2003-2023</p>
Bibliometry	<p>Web of Science: ID: AAX-2481-2020 - https://www.webofscience.com/wos/woscc/basic-search H-index: 23 Web of sciences documents: 68 Total citation: 1262</p> <p>Scopus Author: https://www.scopus.com/authid/detail.uri?authorId=23988405500 Documents: 79</p>

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 H-index: 21
 Total citation: 1.394

Google scholar: <https://scholar.google.it/citations?user=cLhEtBEAAAAJ&hl=it>
 H index: 28
 i10 index: 62
 Total citation: 2071

 <https://orcid.org/0000-0002-1441-8016> ID: 0000-0002-1441-8016

Teaching Experience

2022 April

University of Palermo Earth and Sea Sciences PhD program. Geophysics applied to the seafloor and habitat mapping, principles and applications of high-resolution multibeam techniques.

2022 February

Seminar Univ. Of Bologna BIGEA Phd student
 High-resolution panoramic and multi-spectral geophysical systems for seafloor mapping of Posidonia oceanica (habitat 1120)

2021 December

Italian ARPA and ISPRA Institute. Protocols for the acquisition and quality control of high-resolution multibeam data as part of the monitoring of the Marine Strategy program.

2021 March

Seminar of Marine Geology Univ. Of Bologna. High-resolution geophysical and optical systems for mapping of Posidonia oceanica (habitat 1120).

2021 July

Seminar in the Marine Geology Course (Prof.ssa C. Romagnoli) at the BIGEA University of Bologna in Natural Science. Habitat mapping for Seagrass, classification and analysis by multibeam bathymetry and optical survey, environmental monitoring.

Seminar in the Applied Geophysics Course (Prof.ssa L. Orlando) at the Sapienza University of Rome in Environmental Engineering. Case study applied in emergency conditions of National Civil Protection through high-resolution time-lapse multibeam bathymetry, environmental monitoring.

2017 May

Summer School in Marine Geology, Geological cartography in marine areas. Marine geophysics application and seafloor mapping. ISPRA, SGI Società Geologica Italiana (Marine Geology).

October 2010

Teaching course in Marine Geology at the UNICAL, University of Calabria.

2005

Seminar in the Marine Geophysics Course (Prof.ssa L. Orlando) in the Sapienza University of Rome in Natural Sciences on high-resolution multibeam bathymetry, acquisition and data processing for digital elevation models reconstruction, interpretation of morphological features. Side Scan Sonar methods, acquisition, processing and interpretation.

2003-2005

Commissioner for European Public Procurement

2023

October-November 2023. Member for open tender procedure pursuant to art.60 of d.lgs. no. 50/2016 for the procurement of the national mapping service of the Posidonia oceanica and Cymodocea nodosa seagrass beds by means of surveys lidar bathymetry and geophysical completion surveys. CIG: 9860764fdc - CUP: i81g22000100001 - PNRR: mission 2 "green revolution and ecological transition ecological transition" - component 4 investment 3.5. DETERMINA N° 215/2023 – INVITALIA. .

Examining committee Member/President

2008-2015

Examining committee Member and/or President in 25 public competitions for research activities at National Research Council.

Institutional appointments at the National Research Council

2023-2025

Member of working group of "Seabeds characterization" at the National Research Council. Prt. n. 0390017 del 11/12/2023.

2019-2022

Member of the commission in the Support Office for Operational Programming of the great oceanographic infrastructures of the CNR. N. protocollo: 0012512/2019 del 19/02/2019. Signed 0012512/2019

2017-2019

Member of the commission in the Support Office for Operational Programming of the great oceanographic infrastructures of the CNR. N. prot. 0061475 del 27 settembre 2017.

2011-2014	Member of the commission in the Support Office for Operational Programming of the great oceanographic infrastructures of the CNR.		
Associate member 2021-2025	Istituto per la Ricerca e la Protezione Ambientale (ISPRA). In renewal 2024-2026.		
2018-2020	Istituto Nazionale di Geofisica e Vulcanologia (INGV). In renewal 2024-2026.		
Awards September 27, 2023	Plaque of acknowledgements and recognition from CNR President Prof. M.C. Carrozza and the head of the DPC National Civil Protection Department Eng. F. Curcio for the landslides mapping and characterization interventions occurred in the Emilia Romagna region during the national emergency. Acknowledgements were provided to CNR-IGAG researchers and technologists who participated in the study activities.		
Professional Skills Mother tongue(s)			
Self-assessment European level(*)	Understanding	Speaking	Writing
English	A1	A1	A1
Française	A1	A1	A1
Computer	<p>Operating systems:</p> <p>Mac OS, Windows, Linux, Unix</p> <p>Applications:</p> <p>Office excel</p> <p>CAD: Autocad, Bentley Microstation.</p> <p>GIS: GlobalMapper, ArcView, QGIS.</p> <p>Multibeam data processing: Caris H&S, PDS2000, Terrasolid Bentley Microstation, Qimera, Fledermaus (FMGT, FMmidwater).</p> <p>Seismic data processing/interpretation: GeoSuiteAllworks, SeiSee, Kingdom Suite.</p> <p>GNSS data post processing POSPack, Trimble, Leica Geo Office, Toposetter (RTKLIB), Cube manager StonexPPK.</p> <p>Aerial photogrammetry mapping from remotely piloted systems: PIX4D, Agisoft Metashape, Global Mapper, Zephyr.</p> <p>SW interpolation: Surfer, Grapher, Voxler</p> <p>Side Scan Sonar data Processing: Caris H&S, Sea View, PRISM (TOBI data)</p> <p>Object Based Image Analysis (Classification): eCognition in learning</p> <p>Image data processing: Photoshop</p>		
Field Work	Navigation and acquisition MBES data: PDS2000 (Teledyne Reson), SIS (Kongsberg).		
MB equipments	High-resolution Multibeam echosounder: Teledyne Reson: 7125, 7111, 7160, T50P (400-30 kHz), Kongsberg: EM2040D, EM2040, EM710; EM3002D, EM122, EM302, EM2000 from AUV (400-30 kHz).		
GNSS equipments	Trimble, Stonex, Leica, Topodrone for real, and post processing kinematics data acquisition.		
Additional Information	<p>High-resolution Seismic sources: Chirp III Datasonic2-100 kHz, GEOSparkSparker 1.5 kJ, 2kJ, 4kJ, 6 kJ Uniboom, Multi-channel seismic (water and airgun).</p> <p>Seafloor sampling: Gravity corer, Vibrocorer, grab (Van Veen, shipek) and dradging.</p>		
PUBLICATIONS Peer-reviewed Papers (ISI Journals) 2023	<p>De Donno G., Bosman A., Cardarelli E., Cercato M., Milana G., de Peppo G.P. (2023). Detecting gas upwelling hazards in coastal areas through integration of active and passive electrical and seismic methods (Fiumicino, Central Italy). Engineering Geology, 107336. 10.1016/j.enggeo.2023.107336.</p> <p>Anzidei M., Trpanera D., Bosman A., et al., (2023). Relative Sea-Level Rise Projections and Flooding Scenarios for 2150 CE for the Island of Ustica (Southern Tyrrhenian Sea, Italy). Journal of Marine Science and Engineering. Doi: 10.3390/jmse11102013.</p>		

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- Martorelli, E., Casalbore, D., Falcini, Bosman A. Falese, F.G., (2023). Large-and medium-scale morphosedimentary features of the Messina Strait: insights into bottom-current-controlled sedimentation and interaction with downslope processes. *Geological Society Special Publication* this link is disabled, 2023, 523(1), pp. 229–254.
- Martorelli E., Casalbore D., Bosman A., Pepe F., Corradino V., de Nardis R., Monaco C., Sposato A. Basin-scale interaction between post-LGM faulting and morpho-sedimentary processes in the S. Eufemia Gulf (Southern Tyrrhenian Sea) (2023). *Geomorphology*. Volume 436, 1 September 2023, 108775.
- M. Anzidei, F. Doumaz, A. Esposito, D. Trippanera, A. Vecchio, M. Fabris, A. Bosman, and T. Alberti (2023). Ultra High-Resolution terrestrial and marine DEMs drive Relative Sea Level Rise projections and flooding scenario for 2100 A.D. for the Island of Panarea (Southern Tyrrhenian Sea, Italy). <https://doi.org/10.5194/egusphere-egu23-8617>.
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- 2022 Tomasello A, Bosman A*, Signa G, Rende S.F, Andolina et al., (2022). 3D-reconstruction of a giant *Posidonia oceanica* beach wrack (banquette): sizing biomass, carbon and nutrient stocks by combining field data with high-resolution UAV photogrammetry. *Frontiers in Marine Science*.
- Romagnoli C, Bosman A, Casalbore D, Anzidei M, et al., Coastal Erosion and Flooding Threaten Low-Lying Coastal Tracts at Lipari (Aeolian Islands, Italy). *MDPI Remote Sensing*. Accepted.
- SF Rende, A Bosman, F Menna, A Lagudi, F Bruno, U Severino Assessing Seagrass Restoration Actions through a Micro-Bathymetry Survey Approach (Italy, Mediterranean Sea). *MDPI Water* 14 (8), 1285.
- S Tavani, A Billi, A Corradetti, M Mercuri, A Bosman, M Cuffaro, T Seers. Smartphone assisted fieldwork: Towards the digital transition of geoscience fieldwork using LiDAR-equipped iPhones. *Earth-Science Reviews* 227, 103969.
- Baiocchi V., Bosman A., Rende S., (2022). Comparison of the materialisation of the tide gauges in use in Italy as support for the correct implementation of the national seagrass mapping project. DOI: 10.1109/METROSEA55331.2022.9950840
- 2021 V Baiocchi, A Bosman, G Dardanelli, F Giannone. First considerations on post processing kinematic GNSS data during a geophysical oceanographic cruise. *ACTA IMEKO* 10 (4), 10-16.
- M. Corradino, F. Pepe, P. Burrato, M. Kanari, N. Parrino, G. Bertotti, A. Bosman, D. Casalbore, L. Ferranti, E. Martorelli, C. Monaco, M. Sacchi and G. Tibor. An Integrated Multiscale Method for the Characterisation of Active Faults in Offshore Areas. The Case of Sant'Eufemia Gulf (Offshore Calabria, Italy). *Frontiers in earth science* 9, 476. <https://doi.org/10.3389/feart.2021.670557>.
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- E Martorelli, D Casalbore, F Falcini, A Bosman, FG Falese. Large and medium-scale morpho-sedimentary features of the Messina Strait: insights on bottom-current controlled sedimentation and interaction with downslope processes. *Geological Society, London, Special Publications* 523.
- T Sgroi, A Polonia, L Beranzoli, A Billi, A Bosman, A Costanza, M Cuffaro (2021). One Year of Seismicity Recorded Through Ocean Bottom Seismometers Illuminates Active Tectonic Structures in the Ionian Sea (Central Mediterranean). *Frontiers in Earth Science*, 643.
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- 2020 Martorelli E., Bosman A., Casalbore D., Giaccio B., Mancini M. (2020). Mid-to-late Holocene upper slope contourite deposits off Capo Vaticano (Mediterranean Sea): High-resolution record of contourite cyclicity, bottom current variability and sandy facies. *Marine Geology*, 2021, 431, 106372.
- Rende S.F., Bosman A., Di Mento R., Bruno F., Lagudi A., D. Irving A., Dattola L., Di Giambattista L., Lanera O., Proietti R., Parlagreco L., Stroobant M., Cellini E. (2020). Ultra-high-resolution mapping of *Posidonia oceanica* (L.) Delle meadows through acoustic, optical data and Object-based Image classification. *Journal of Marine Science and Engineering*. MDPI.
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- Casalbore D., F Falcini, E Martorelli, E Morelli, A Bosman, M Calarco, F. Chiocci (2019). Characterization of overbanking features on the lower reach of the Gioia-Mesima canyon-channel system (southern Tyrrhenian Sea) through integration of morpho-stratigraphic data and physical modelling. *Progress in Oceanography* 169, 66-78.
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- Casalbore D., C Romagnoli, C Adami, A Bosman, F Falese, A Ricchi, et al., (2018). Submarine Depositional Terraces at Salina Island (Southern Tyrrhenian Sea) and Implications on the Late-Quaternary Evolution of the Insular Shelf. *Geosciences MDPI* 8 (1), 20.
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- 2017 Casalbore D., Ridente D., Bosman A., Chiocci F., (2017). Depositional and erosional bedforms in Late Pleistocene-Holocene pro-delta deposits of the Gulf of Patti (southern Tyrrhenian margin, Italy). *Marine Geology* Volume 385, 1 March 2017, Pages 216–227.
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- 2016 Martorelli E., Bosman A., Casalbore D., Falcini F. (2016). Interaction of down-slope and along-slope processes off Capo Vaticano (southern Tyrrhenian Sea, Italy), with particular reference to contourite-related landslides. *Marine Geology* 378 (2016) 43–55.
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Hazard maps of the Italian seas scale 1:50.000	<p>Coordinator of geophysical activities at sea, data analysis and data interpretation.</p> <p>Hazard maps of the Italian seas: Map 05 - Pontine Islands. July 2020.</p> <p>Hazard maps of the Italian seas: Map 06 - Ventotene Island. July 2020.</p> <p>Hazard maps of the Italian seas: Map 13 Paola. July 2020.</p> <p>Hazard maps of the Italian seas: Map 14 Isole St. Eufemia. July 2020.</p> <p>Hazard maps of the Italian seas: Map 15 Gioia. July 2020.</p> <p>Hazard maps of the Italian seas: Map 16 Stromboli Island. July 2020.</p> <p>Hazard maps of the Italian seas: Map 18 Capo d'Orlando. July 2020.</p> <p>Hazard maps of the Italian seas: Map 30 Pantelleria Island. July 2020.</p> <p>Hazard maps of the Italian seas: Map 33 Catania. July 2020.</p> <p>Hazard maps of the Italian seas: Map 34 Messina. July 2020.</p>
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Supervisor research grant	2020
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	2017
	Supervisor research grant in Marine Geology. Bando 0000794 del 28/03/2017 CNR IGAG. One year, Dr. Giordano Macelloni. "Processing and interpretation of multibeam data (bathymetry, backscatter and water column data) and of sedimentological data for seafloor characterization.
	Tutor for II Level Sapienza University Master in "Characterization and technologies for the remediation of polluted sites". Ing. Lucia Palladini. Processing and analysis of multibeam and backscatter data and sampling (grabs) of Po River delta, Northern Adriatic Sea (Italy).

Supervisor Master Thesis 2004 - present	Supervisor of 34 master Thesis in Marine Geology, Natural Sciences, Environmental Sciences and Engineering at Sapienza (Rome DST – DICEA - DITS) and Alma Mater Studiorum (Bologna Biological, Geological and Environmental Sciences) University.
Internship Tutor for University Students in CNR structures 2009-2012	Training in Projects for Internship of Sapienza University for 53 students Faculty of Mathematical, Physical and Natural Sciences at CNR-IGAG (Geology, Natural Science and Environmental Sciences).
National and International courses 2008	Advanced course on processing of multibeam backscatter data: Fundamentals of Multibeam backscatter data compared with side-scan sonar data and the use of PRISM, from National Oceanography Centre (Southampton UK). Reference Dr. Tim Le Bas. Sapienza University of Rome Engineering, Dipartimento Idraulica Trasporti e Strade 14-17 gennaio 2008.
2006	Advanced course in processing high-resolution multibeam and side scan sonar data and LIDAR bathymetry data, CARIS Geographic Information Systems - Hips & Sips, Dr. T. Groves, Sapienza University of Rome Engineering, Dipartimento Idraulica Trasporti e Strade, 18-22 Settembre 2006.
2002	Courses post Lauream Topography and Geodesy Sapienza University of Rome Dipartimento di Idraulica Trasporti e Strade, Prof. Mattia Crespi and Prof.ssa M. Marsella (February 2002).
2001	2001 Corso "GISchool" su Sistemi Geografici Informativi (GIS), Sapienza University of Rome Architecture University, Prof. U. M. Schiavoni Schiavoni (February 2001).
2000	Applied Geophysics, Sapienza University of Rome, Engineering, Dipartimento Idraulica Trasporti e Strade Prof. Marcello Bernabini (February 2000). Marine Geology, Earth Sciences Sapienza University of Rome di Roma. Prof. F.L. Chiocci (October 2000).
1999	Training abroad at the international Southampton Oceanography Center Southampton (UK). From 15/01/1999 to 23/02/1999. He worked on the processing data (radiometric and geometric corrections) Long Range Side Scan Sonar data (T.O.B.I.), acquired in the European Access to Seafloor Survey Systems Program.
Congress and workshop organization 2009	International Conference on Seafloor Mapping for Geohazard Assessment 10-13 May 2009. Ischia, Forio (Italy).
2007	1° Workshop MaGIC, nell'ambito del Sesto Forum Italiano di Scienze della Terra. Rimini, 10-11 Settembre 2007 (Italy).
2006	Scientific meetings and workshops in the MAGIC Project. Partners: 3 CNR Research Units, OGS, National Civil Protection Department and nine University RU.
2004	Organization of meetings and workshops within the Volcanological Project n. 15: "Conoscenza delle parti sommerse dei vulcani Italiani e valutazione del potenziale rischio vulcanico. Partners: 3 CNR Research Units and 5 University RU.
Scientific and technical Reports 2023	Report on the state of damage and residual risk assesment after the instability phenomena (landslides) that affected the Tuscan-Emilian Apennines for the Department of National Civil Protection.
2020	Final scientific report for ISPRA relating to the sample analysis of multibeam and backscatter bathymetric data (side scan sonar and multibeam), collected by ARPA as part of the marine strategy project and evaluation forms for analysis and classification. Dicembre 2020 Marine Strategy. Attività condotta nell'ambito della convenzione sulla strategia marina tra il CNR-IGAG e l'ISPRA nell'accordo operativo con mattm del 28 dicembre 2018 per l'attuazione della direttiva 2008/56/ce. Scientific report of the protocols for the acquisition and quality control of high-resolution multibeam data as part of the Marine Strategy Project. Activity conducted under the Marine Strategy agreement between the CNR-IGAG and the ISPRA. Accordo operativo MATTM del 28 dicembre 2018 per l'attuazione della direttiva 2008/56/ce.

- Final scientific report: summary of the activities carried out under the ISPRA CNR - IGAG Marine Strategy convention. Activity conducted under the marine strategy agreement between the CNR-IGAG and the ISPRA. Accordo operativo MATTM del 28 dicembre 2018 per l'attuazione della direttiva 2008/56/ce.
- Final scientific report on high resolution geophysical activities in the Follonica Gulf, during the emergency of National Civil Protection as a result of the secondary solid fuel scattering on the seafloor of the Follonica Gulf. 18 december 2020.
- N. 23 intermediate reports on the activities carried out for the research of solid fuel scattering on the seafloor of the Follonica Gulf for National Civil Protection (September - November 2020).
- 2015 From 2003 to 2015, he was involved in monitoring the submerged portion of the Sciara del Fuoco (Stromboli). The research was carried out on behalf of the Department of Civil Protection, for the control and analysis of the instability and erosive depositional processes of the submerged Sciara every about six months, by means of high-resolution morphobathymetry comparisons. Specifically, he dealt with the design, execution and interpretation of over 30 bathymetric surveys carried out before, during and after the landslide and tsunami event of 12/30/2002 and the eruptive crisis of March 2007. All activities are documented by scientific and technical reports. Funding of the National Civil Protection Department.
- Final scientific report for the study relating to the updating of the mapping of the seabed of the Fiumicino canal in the stretch between Ponte 2 Giugno and the mouth of the Tiber River. Activity conducted by the Lazio Region DPC account (July 2015).
- 2012 Scientific report on marine geophysics surveys carried out at Punta Gabbianara (Giglio Island - Italy) for the emergency relating to the sinking of the Costa Concordia Vessel. Activities conducted on behalf of the DPC (July 2012). Protocollo: n. 01879 del 06/08/2012
- Final Scientific Report 2012: high-resolution morphological and seismic characterization, sampling of the Tiber River from Castel Giubileo to Isola Sacra (Fiumara Grande and Fiumicino).
- 2010 Geophysical and Marine Geology surveys in the Arsenale and Pta Chiara areas of the Island of La Maddalena (Sardinia Island). Research activities carried out on behalf of the National Civil Protection for the seismostratigraphic and morphobathymetric characterization of the seafloor in the area facing the reception facilities during the G8 post dredging activity. The research activities have given rise to technical-scientific reports delivered to the DPC. 10/12/2010. Financing DPC.
- 2009 Report for the National Civil Protection Department. Report on the state of Sciara Sommersa (Stromboli Island): state of the submerged portions of the lava delta about two years and two months after its placement (Stromboli). 10/06/2009
- 2008 Report for the National Civil Protection Department. State of the submerged portions of the Sciara del Fuoco (Stromboli Island) about twenty months after the end of the last eruption. Hazard related to the underwater instability phenomena. 28/12/2008.
- Geophysical and marine geology surveys in the Arsenale and Pta Chiara area on the island of La Maddalena (Sardinia Island). Research activity carried out on behalf of the National Civil Protection of the Arsenale marine area (La Maddalena) for the seismostratigraphic and morpho-bathymetric characterization of the seafloor in the area facing the reception facilities on the G8 The research activities have given rise to technical-scientific reports delivered to the DPC on 18-04-2018.
- Scientific report for the National Civil Protection. Status of the submerged portions of the lava delta one year and three months (Stromboli Island). Hazard related to the underwater instability phenomena. 25/06/2008.
- 2007 Final report of marine geology research activities carried out in Stromboli Island- conv. 598 07/18/2006. Research activities carried out in the Stromboli Island "2007 emergency" due to the rapid construction (potentially unstable) of the lava delta close the the Gabbiani beach.
- Scientific report for National Civil Protection. Status of the submerged portion of the lava delta three and a half months after its construction (Stromboli Island) 20/07/2007.
- Technical-scientific report for the National DPC. Scientific report on the evaluation of submarine hazard: analysis of the submerged slopes facing the pier of the Ginostra harbor after the impact of the storm. 4/03/2007.

Scientific report for National Civil Protection. Final report on the research carried out on the seabed (Stromboli Island). Bathymorphological activities on the Submerged part of Sciara del Fuoco, based on the 6 research oceanographic cruises conducted at sea at 6, 7, 41 51, and 59 days after the eruption of 27 February 2007. 15/05/2007.

Scientific report for National Civil Protection Preliminary. Results of the bathymetric survey of 7 February 2007, carried out near the Ginostra harbor (Stromboli Island). 14/03/2007.

First scientific report for National Civil Protection Preliminary on the monitoring activities of the Sciara Sommersa during the 2007 emergency (Stromboli Island). First morphological analysis of the lava delta on 5 and 6 March 2007 during the new formation. Monitoring and analysis of the stability of the submerged slope caused by the rapid placement of the lava delta of 6 million meters (from March 5-6 2007) 14/03/2007.

Scientific report for National Civil Protection Preliminary. Seismostratigraphic structures of the seafloor off Punta Alice (Calabria Ionian) in reference to the submarine and subaerial instability phenomena. Scientific Report on the assessment of the submarine hazard: report on geophysical activities in the area in front of the promontory of Punta Alice linked to the instability phenomena along the Cirò Marina town. Integration of data from multibeam bathymetry, single channel seismic chirp and sparker data. 16/01/2007.

2006 Scientific report for National Civil Protection Preliminary. First morphological characterization of the large instability phenomena of of Cirò Marina town (Ionian Sea - Calabria). Research activity carried out on behalf of the National Civil Protection, to identify the causes of the instability phenomena of the Cirò Marina town and along the coastal area of Punta Alice - Cirò Marina (Ionian Sea - Calabria). Funded by the Department of National Civil Protection.

Scientific report for Regione Lazio Idrografico e Mareografico office of Rome. Morphological and seismostratigraphic characterization of the Tiberine river from Fiumicino and Fiumara Grande to Ponte del Grillo (North of Rome) for a total length of about 80 km. Final Scientific Report. Project carried out with the Dipartimento di ingegneria Civile Edile e Ambientale Sapienza University of Rome.

Scientific report for National Civil Protection Preliminary. Technical report concerning the structural assessment of the seafloor of the submerged part of Sciara del Fuoco (Stromboli Island). 23/01/2006

Scientific references

Prof. Valerio Baiocchi and Giorgio De Donno (DICEA Sapienza), Prof.ssa Claudia Romagnoli (Univ. of Bologna - BIGEA), Dr. Tim Le Bas (NOC -UK), Dr. Marco Anzidei and Dr. Mauro Coltelli (INGV), Prof. Sandro Conticelli and Dr. Fabio Trincardi (CNR), Dr. Sante Francesco Rendeand Dr. Leonardo Tunesi (ISPRA), Prof. Leonardo Macelloni (University of Mississippi).

Processing of personal data, information and consent

The Undersigned hereby authorises the CNR, ISPRA, INGV, MUR, MASE, Min. dell'Interno and Stazione Zoologica Antor Dohm to utilize and store the personal sensitive data contained in the attached Curriculum Vitae for the purposes of bilateral Jointresearch projects and within the framework of the Data protection Act No. 196, dates 30 June 2003 as promulgated by the Italian Government.

Dr. Alessandro Bosman

Rome, December 13, 2023



Agrees to the processing of personal data for scientific activities