

		<p>Name: Manuel Surname: Bensi</p> <p>📍 Trieste, Italy</p> <p>📞 ✉️ 🌐</p> <p>http://www.ogs.it/en/users/manuel-bensi http://www.scopus.com/authid/detail.url?authorId=36674551000 https://orcid.org/0000-0002-0548-7351 https://scholar.google.it/citations?user=sUHOZaEAAA&hl=it https://www.researchgate.net/profile/Manuel_Bensi Web of Science Researcher ID AAV-2101-2020</p>
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ACTUAL JOB POSITION: Researcher at National Institute of Experimental Oceanography and Geophysics–OGS Italy.

BIOGRAPHY

Marine Scientist in the **physical oceanography** field: M.Sc in Marine Science in 2003 and 2006, PhD in 2012. Researcher (permanent position) at the National Institute of Oceanography and Applied Geophysics - OGS, member of the Italian Scientific Commission for Antarctica between 2021 and 2023, of the scientific committee for the icebreaker *r/v Laura Bassi*, and of the steering committee of the Arctic ROOS (Regional Ocean Observing System).

Author or co-author of 38 published ISI papers (source **scopus**; H-index 16); **my research focuses on thermohaline circulation, dense water formation, and climate changes in the Mediterranean Sea and Arctic/Antarctic regions.** From 2002 I took part in more than 30 oceanographic cruises (Mediterranean, Atlantic and Arctic/Antarctic ocean). Large expertise in ocean data acquisition/processing (thermohaline data, ocean-velocity data, time-series, etc.), instruments set-up, data interpretation and analyses. Coordinator and task leader in several national and international projects. Supervisor of PhD students and active in scientific dissemination to the general public. Reviewer for several ISI Journals. Married, 1 daughter, I speak 3 languages (Italian, English, Portuguese).

RESEARCH INTERESTS

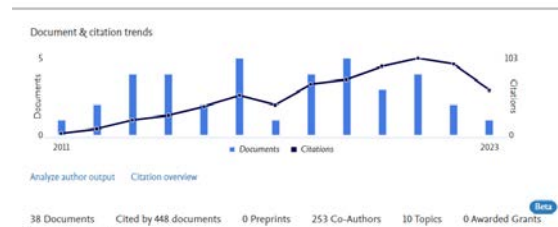
Thermohaline Circulation & Water Mass Analysis; coastal/open sea oceanography; Dense water formation processes; Climate changes; Mediterranean Sea; Polar Research.

EDUCATION (Title of the theses are listed in the section "list of publications - monographs")

- 2012 **Ph.D** (19/04) Marine Science (physical marine and coastal environment), Univ. of Trieste, Italy.
- 2006 **M.Sc.** degree (17/03) Tropical Marine Science (Coastal and Estuarine Zone Management), Federal University of Ceará, Fortaleza, Brazil.
- 2003 **M.Sc.** degree (29/09) Marine Science (Oceanography), University of Genova, Italy.

EDUCATIONAL AND TRAINING POST-GRADUATION COURSES

- 2022 **Training course** in preparation to **Antarctic expedition**, organized by ENEA within the Italian Antarctic Research Programme.
- 2021 OPITO Basic Offshore Safety Induction & Emergency Training, including HUET and EBS (valid until 2025).
- 2021 Course on **environmental risk communication**, online, organized by OGS, 9-10 march '21.
- 2019 Training course (SIOS) Marine Remote Sensing in Svalbard, Longyearbyen, 02-05/09 '19.
- 2019 Introductory course to **Python programming language**. Organized at OGS Trieste, 2019.
- 2016 **English (scientific/technical)** course (intermediate Level) organized at OGS (28h) Trieste, 2016.
- 2015 **Public speaking** course (12h). Area Science Park, 4 and 9 March 2015, Trieste.
- 2012 **Time-series analysis in marine science and applications for industry**, Training course, 17 - 19 September 2012, Brest, France. I received a grant for the participation.



- 2012 Workshop on “*Marie Curie Evaluation process: how to write a successful proposal*”, 5 Giugno, Area Science Park, Trieste.
- 2011 **Summer school in Physics of the Ocean**, 11 - 16 Sep 2011, Physikzentrum Bad Honnef, Germany. Organized by Martin Visbek and Wolfgang Roether.
- 2010 **Boundary layers and outer solutions in Oceanography**: mini course (12h). 8-10 Nov 2010, University of Trieste. By Prof. Alberto Scotti (from Univ. of North Carolina).
- 2010 International **MedCLIVAR-ICTP-ENEA Summer School "The Mediterranean Climate System and Regional Climate Change"**, 13-22 Sep. 2010, ICTP, Trieste, Italy.
- 2004 “**Aeolian geomorphology - sand dune morphology and dynamics**” by Ph.D Prof. Haim Tsoar, visiting scientist at the Institute of Marine Sciences–LABOMAR–Federal University of Cearà, Fortaleza, Brazil. 30 Aug - 2 Sept 2004.

WORK EXPERIENCES

- 2018-Present **National Institute of Experimental Oceanography and Geophysics -OGS**, Trieste, Italy. Researcher at the division of oceanography (full time permanent position).
- 2023 **Consultant at the NATO CMRE, Centre for Maritime Research and Experimentation (Oct-Nov)**.
- 2012-18 **OGS**, Trieste, Italy. Researcher at the division of oceanography (Fixed term position).
- 2008-11 **OGS**, Trieste, Italy. Research assistant at the division of oceanography.
- 2007-08 **TOMASONI Top Sail spa**, Rapallo, Italy. Sailing sales department. May07-Jan08.
- 2006 **NATO Undersea Research Centre (NURC)**, La Spezia, Italy. *Research Assistant Program (Sept-Dec)*.
- 2006 **NAVIMETEO MIGRAZIONI s.r.l.**: Meteo forecaster, acquisition of meteorological data and development of services and educational programs. May-Sept 06.
- 2004-06 **Institute of Tropical Marine Sciences – LABOMAR – Federal University of Cearà, Fortaleza, Brazil**. Research assistant (founded by Brazilian Government), Coastal oceanography.
- 2002-03 **Hydrographic Institute of the Italian Navy “MARINA MILITARE ITALIANA”**, Genova, Italy. Research assistant/student working on the Univ. degree thesis.
- 1992-03 **Main jobs**: Windsurf/sailing instructor; Skipper/Sailor on sailing ships; TV video-camera operator; Seller in shops.

ACHIEVEMENTS

- 2023 **Invited (by the Italian Embassy) speaker** at the Scientific Event “*Italia-Brasile: sulle orme di Amerigo Vespucci, dal Mediterraneo all’Atlantico*”. Organized at Fortaleza, Brazil, by the Italian Embassy. 6/10/23.
- 2023-pres **Elected Member of the Steering committee of the Arctic Regional Ocean Obs. System (ROOS)**.
- 2020-2023 **Elected Member of the Antarctic National Scientific Commission (CSNA)**.
- 2020-pres **Elected Member of the Scientific Committee** for the management of the r/v L. Bassi.
- 2018-pres **Elected OGS representative at the Arctic Regional Ocean Observing System (ROOS)**.
- 2017-pres Nominated as participant at the **Italian Arctic round table** organized by the Italian Ministry of foreign affairs.
- 2016 **Eligibility as scientific researcher at OGS**, Trieste, Italy, permanent position;
- 2016 **Eligibility as scientific researcher at CNR**, Italy, permanent position
- 2012 **Grant** for the participation at the “**Time-series analysis in marine science and applications for industry** Training course”, 17 - 19 September 2012, Brest, France.
- 2012 **Young Scientist's Travel Award** to participate at the **EGU General Assembly**, Wien, 2012.
- 2011 **Visiting scientist** at ZMAW (*Zentrum für Marine und Atmosphärische Wissenschaften*), University of Hamburg, Germany, January [invitation by Dr. Dagmar Hainbucher].

EVALUATOR ACTIVITIES FOR INTERNATIONAL PROJECT PROPOSALS (AS EXTERNAL EXPERT)

2021 – Project evaluator for the French Programme COFUND (actions of the “Marie SKLODOWSKA - CURIE (MSCA))

2014-2018 - External evaluator for projects submitted to ISCRA-cineca (Italian Super Computing Resource Allocation).

2016 - Project evaluator for Polish funding programme "executive government agency of National Science Centre (Narodowe Centrum Nauki - NCN; <http://www.ncn.gov.pl>)"

EDITORIAL ROLES

Associate Editor for the Bulletin of Oceanography and Geophysics Journal (May22-Sept23).

Topic Editor for the Journal Water (MDPI, since 2020).

Review Editor for Physical Oceanography for Frontiers in Marine Science (2019).

Guest Editor for the Special Issue "Ocean Exchange and Circulation", Journal WATER, MDPI (2019).

Reviewer for: Hydrobiologia; Marine Geology; Ocean Science; Continental Shelf Research; Deep Sea Research; JGR-Oceans; Journal of Atmospheric and Oceanic Technology, AMS; ISCRA (Italian Super Computing Resource Allocation), CINECA.

TUTORING ACTIVITIES

2023	Tutoring (starting from January 2024) of M.Sc. student H. Olsen in the Erasmus+ programme.
2022	Tutoring ICTP TRIL programme for Visiting Scientist Olubunmi Ayoola NUBI.
2021	Tutor for the <i>internship experience</i> (250h, May-August) at OGS of the Master's student Carlotta Dentico (Master of Research in Science and Management of Climate Change, University of Venice).
2017-18	Co-tutoring of <i>PhD student</i> Leonardo Rui (University of Trieste/ICTP/OGS, course of Earth Science, fluid dynamics and mathematic. Interactions and methods).
2017	Tutor for the <i>internship experience</i> (April 2017) of student Sara Alejandra Cansing Andrade, University of Ecuador, USV-ESPOL, in the framework of a collaboration between OGS and USV-ESPOL.

CONGRESS/WORKSHOP MODERATOR/CONVENER

2023	Co-organizer of the 3 rd SIOS workshop on Svalbard marine observing systems, 4 Oct 2023.
2021	Co-organizer of the 2 nd SIOS workshop on Svalbard marine observing systems, 7 Dec 2021.
2020	Co-organizer of the 1 st SIOS workshop on Svalbard marine observing systems, 19 Nov 2020.
2016	Convener at the 88 ^o congress of the “ <i>Società Geologica Italiana</i> ” (SGI), Napoli.
2015	Moderator at the Workshop “Themes”, Venice, 25 th -26 th Nov. 2015.
2013	Moderator at the 40 th CIESM congress, Marseille, 28 Oct - 1 Nov 2013. C2 - Physics & Climate of the Ocean, Session 15: Ventilation Transients.

OUTREACH AND DISSEMINATION ACTIVITIES

In 2023	Following 4 classrooms within the Antarctic program “ <i>Adotta una scuola in Antartide</i> ”; Laboratory for children organized at Trieste Next and Sharper (European Research Night) Dissemination activities to the public; Lecturer at the university of the third age; Lecturer at the Training course on “Maritime robotics in blue Economy” (https://marble.adrioninterreg.eu/)
From 2012 onwards	Several participation to dissemination activities organized, e.g. at TS-Next, participation to public events as lecturer, several participations to TV and RADIO programs.

PARTICIPATION IN EXAMINATION COMMISSIONS

2016	Selection on the basis of qualifications/interviews for the award of a research grant (Bando OGS, DG. 007/2016)
2015	Selection on the basis of qualifications/interviews for the award of a research fellowship (Bando OGS, DG. 072/2015)
2014	Selection on the basis of qualifications/interviews for the award of a research grant (Bando OGS, DG. 089/2014)

PARTICIPATION IN RESEARCH PROJECTS

2023-25	<u>RU leader</u> in the Italian PRIN project “ <i>ATlantificaTion dRiven by polAr-subpolar ConnecTIONs</i> ”
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- (*ATTRACTION*) in a changing climate: integrating observational evidence, paleo-oceanography and modelling over the last thousand years at the gateway of the Arctic Ocean”; **Budget 199.930€ (at OGS 69.100€)**, funded by Italian Ministry of Research.
- 2021-23** Participant (also in the preparation phase) in the Arctic Research Italian Programme project CASSANDRA - Advancing knowledge on the present Arctic Ocean by chemical-physical, biogeochemical and biological observations to predict the future changes; **Budget 140k€ (at OGS 67k€)**.
- 2021-23** Participant in the Italian Antarctic Research Programme: PNRA19_00069 project LASAGNE- *Laminated sediments in the magnificent Edisto Inlet (Victoria Land): What processes control their deposition and preservation?* **Budget 214k€ (at OGS 65k€)**.
- 2021** RU leader in the project SIOS DATA curation CALL (call 2019). **Budget 10k€ (at OGS 5k €)**.
- 2020-23** Participant in the Italian Antarctic Research Programme: PNRA18_00002 ANTIPODE “Onset of Antarctic ice sheet vulnerability to ocean conditions”. P.I. Colleoni F. (OGS). **Budget 97k€**
- 2019** P.I. in the ARICE2019-012 proposal (MESOS) for ship time in the Arctic: Approved in 2021 after scoring but not implemented due to unavailability of the ship in 2022. **Budget: 37k €**
- 2018** Participant in the BIOS-CROPEX project at the Coriolis rotating platform, LEGI, Grenoble, France. P.I. M. Gacic (OGS).
- 2018-19** P.I. in the SIOS (Svalbard Integrated observing System) SESS REPORT project “SOA - Spitsbergen Oceanic and Atmospheric interaction”. **Budget 55k €**
- 2017-21** Participant (invited as external partner) in the Croatian project “ADIOS” (P.I. Dr. Ivica Vilibić).
- 2017-19** Participant in the Italian Antarctic Research Programme PNRA16/ODYSSEA “Ricostruzioni Paleoclimatiche e Dinamica Oceanica dai sediment Drifts del Mare di Ross”; P.I. Rebesco M. (OGS). **Budget 155k €**
- 2017-19** Participant in the Italian Antarctic Research Programme PNRA16/WHISPERS (West Antarctic Ice Sheet History from Slope Processes – Eastern Ross Sea). P.I. De Santis L. **Budget 113k €**
- 2017-19** P.I. in the Italian Antarctic Research Programme **PNRA-DEFROST - Deep Flow Regime Off Spitsbergen- Budget 99k €**.
- 2012-17** FIXO3 – *Fixed-point open ocean observatories* [**subtask leader** in WP2]
RITMARE – LA RICERCA ITALIANA PER IL MARE [**task leader** in SP3-Wp3-Az1, SP4, SP5-Wp3-Az3]. **Budget for the RU about 90k €**.
- 2009-11** EUROSITES – *European Ocean Observatory Network* [**Participant**].
- 2008-09** SESAME-*Southern European Seas. Assessing and Modelling Ecosystem changes.* [**Participant**].
- 2008-09** VECTOR- *Vulnerabilità delle Coste e degli ecosistemi marini italiani ai cambiamenti climatici e loro ruolo nei cicli del carbonio mediterraneo.* Italy. [**Participant**].
- 2008-10** ADRICOSM-STAR: *Integrated coastal zone management system in the Adriatic Sea.* [**Participant**].
- Project participation during the M.Sc. degree in Brazil:**
- 2006** “*Monitoramento ambiental do Campo de Golfinho - Bacia do Espírito Santo*” (Petrobrás/FCPC /Labomar-

- UFC)". Oceanographic cruise in the offshore area of oil-plants in *Vitoria, Brazil*. [Participant]
- 2006** "Programa de monitoramento do sistema de descarga de efluentes da USINA termoeletrica –Complexo Industrial e Portuario do Pecem–Estado do Ceara. Relatorio de Atividades". [Participant]
- 2005** *Project about Environmental monitoring of the marine coastal Area of Fortaleza, Brazil*. [Participant]
- 2005** "Levantamentos e Avaliaco'es Ambientais Iniciais do Complexo Industrial e Portuario do Pecem", Brazil. [Participant]
- 2004-05** "ZEE do Estado do Ceara (Zoneamento Ecologico Economico)". [Participant]
- 2004** "Capacidade de suporte e vulnerabilidade ambiental das bacias inferiores dos rios do Estado do Rio Grande do Norte". Project related to environmental monitoring of fishing culture activity in the state of *Rio Grande do Norte, Brazil*. [Participant]

OCEANOGRAPHIC CRUISES (INDICATED WITH ** THOSE WHERE I WAS IN CHARGE OF ACTIVITIES)

- 2023** r/v Alliance (Italy). Arctic NREP23 Cruise (Tromso – Tromso), 20 June -10 July **.
- 2023** r/v Laura Bassi (Italy). 38° Antarctic Italian Expedition, Ross Sea (January-March 2023).
- 2021** r/v Laura Bassi (Italy). LB21 Arctic Cruise (Longyearbyen – Bergen), 29 Aug-15 Sep 2021 **.
- 2019** r/v Alliance (Italy). HN19 Arctic Cruise (Tromso – Bergen), 27 Oct-09 Nov 2019 **.
- 2018** r/v Alliance (Italy). HN18 Arctic Cruise (Tromso – Tromso), 7-25 July 2018 **.
- 2017** r/v Alliance (Italy). HN17 Arctic Cruise (Reykjavik – Tromso), 11-28 July 2017 **.
- 2016** r/v Polarstern (Germany). PS99.1 Arctic Cruise (Bremerhaven – Longyearbyen), June 2016 **.
- 2016** r/v BIOS DVA (Croatia). Eurofleets2 Cruise ESAW2, Adriatic Sea. April 2016 **.
- 2015** r/v BIOS DVA (Croatia). Eurofleets2 Cruise ESAW1, Adriatic Sea. Dec 2015 **.
- 2015** r/v MINERVA UNO (Ita-CNR), SIRIAD15 cruise, Adriatic Sea, April 2015 **.
- 2014** r/v G.DALLAPORTA (Ita-CNR), RITMARE PRO DELTA cruise, North Adriatic Sea, Dec. 2014 **. r/v Explora (Italy), RITMARE/FIXO3 cruises, Adriatic Sea (8-15 Sept., 2-8 Oct. 2014). r/v Urania (Italy), SIRIAD14 cruise, Adriatic Sea, Mar. 2014.
- 2013** r/v Helmer Hanssen (Norway-UiT), Arctic Cruise (Tromso-Svalbard), ECO2 project, July 2013 **.
- 2010** r/v Maria S.Merian (Germany), Adriatic and Ionian Sea. Cruise MSM15/4. July 2010
- 2009** r/v Maria S.Merian (Germany), Adriatic and Ionian Sea. Cruise MSM13/2. October 2009
- 2008** r/v Urania (Italy), Adriatic-Ionian Seas (Sesame IT1-Feb08; Sesame IT2-Mar08; Sesame IT6-Sept08; Sesame IT7-Oct08). Hydrographic and biogeochemical data collection (4 cruises).
- 2008-10** XBT measurements on the route Trieste-Durres-Bari along the Adriatic Sea in the framework of the project ADRICOSM-STAR (several cruises on ferryboxes).
- 2004-06** several cruises in coastal, open-sea, and estuarine areas of Brazil, Atlantic Sea.
- 2003** r/v "Universitatis (Italy)", Ligurian Sea. Hydrographic data collection.
- 2002** r/v "Coopernaut-Franca" (Italy), Ligurian Sea. Hydrographic data collection.

JOB-RELATED COMPUTER SKILLS

Operating system: Windows (expert), Linux (basic)

Software (Expert): **MATLAB, OCEAN DATA VIEW, SURFER, GRAPHER, SEABIRD-RDI-Aanderaa-SONTEK** software packages, DHI (MIKE 3/21), ARCVIEW, ENVI.

JOB-RELATED TECHNICAL SKILLS

- Oceanographic instrumentations maintenance and deployment (CTD, ADCP, moorings, etc.)
- Oceanographic Data processing and analysis finalized to scientific paper production
- Laboratory analysis: Dissolved oxygen analysis through Winkler method
- Oceanographic cruise organization

COMMUNICATION SKILLS

Good communication skills gained through the participation at many congresses/meetings/workshops

FORMATION AND TRAINING COURSE (NOT SCIENTIFIC FIELD)

- 2006** Safety on work, law n° 626/94, Italy
- 1997** Pedagogical entertainer
- 1997** Windsurf instructor at the sailing school "Velamareclub", *Palau (SS), Italy*

DRIVING LICENCES

A-B European *driving licence*; *Nautical Licence* for sailing and motor boat > 12 nautical miles.

HOBBIES

Sports (Windsurf, Snowboard, Basket, Sailing); Family & Friends; Music; Travels; Video/photography.

MOTHER TONGUE: ITALIAN

Other languages	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
PORTOGUES (*)	Excellent(C2)	Excellent (C2)	Excellent (C2)	Excellent (C2)	Excellent (C2)
ENGLISH (*)	Good (C1)	Good(C1)	Good(C1)	Good(C1)	Good(C1)
SPANISH (*)	Good (A2)	Good (A2)	Fair (A1)	Fair (A1)	-

(*) [Common European Framework of Reference for Languages](#)

Signature



(Manuel Bensi)

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali"

LIST OF SCIENTIFIC PUBLICATIONS PEER-REVIEWED ISI-JOURNAL PAPERS:
(SCOPUS H-INDEX : 18 ; GOOGLE SCHOLAR H-INDEX: 16, SINCE 2011)

Papers under review:

1. Battaglia **et al.** The discovery of the southernmost ultra-high-resolution Holocene paleoclimate sedimentary record in Antarctica. *Under review in Marine Geology.*
2. Donda **et al.** Footprint of sustained poleward warm water flow within East Antarctic submarine canyons, *submitted in Nature Communication.*

Papers accepted for publication:

1. Schroeder **et al.** The 2016 Med-SHIP transects in the Mediterranean Sea: seawater physics and chemistry, *Nature Scientific Data Journal.*

Papers published (in chronological order):

2. Civitarese, G., Gačić, M., Batistić, M., **Bensi, M.**, Cardin, V., Dulčić, J., Garić, R., and Menna, M.: The BiOS mechanism: History, theory, implications, *Progress in Oceanography*, 216, 103056, <https://doi.org/10.1016/j.pocean.2023.103056>, **2023.**
3. **Bensi, M.**, Kovačević, V., Donda, F., O'Brien, P. E., Armbrecht, L., and Armand, L. K.: Water masses distribution offshore the Sabrina Coast (East Antarctica), 14, 65–78, <https://doi.org/10.5194/essd-14-65-2022>, **2022.**
4. Jasprica, N., Čalić, M., Kovačević, V., **Bensi, M.**, Dupčić Radić, I., Garić, R., and Batistić, M.: Phytoplankton distribution related to different winter conditions in 2016 and 2017 in the open southern Adriatic Sea (eastern Mediterranean), *Journal of Marine Systems*, 226, 103665, <https://doi.org/10.1016/j.jmarsys.2021.103665>, **2022.**
5. Caridi, F., Sabbatini, A., **Bensi, M.**, Kovačević, V., Lucchi, R. G., Morigi, C., Povea, P., and Negri, A.: Benthic foraminiferal assemblages and environmental drivers along the Kveithola Trough (NW Barents Sea), *Journal of Marine Systems*, 224, 103616, <https://doi.org/10.1016/j.jmarsys.2021.103616>, **2021.**
6. Conte, R., Rebesco, M., De Santis, L., Colleoni, F., **Bensi, M.**, Bergamasco, A., Kovacevic, V., Gales, J., Zgur, F., Accettella, D., De Steur, L., Ursella, L., McKay, R., Kim, S., and Lucchi, R. G.: Bottom current control on sediment deposition between the Iselin Bank and the Hillary Canyon (Antarctica) since the late Miocene: An integrated seismic-oceanographic approach, *Deep Sea Research Part I: Oceanographic Research Papers*, 176, 103606, <https://doi.org/10.1016/j.dsr.2021.103606>, **2021.**
7. Gamboa-Sojo, V. M., Husum, K., Caridi, F., Lucchi, R. G., **Bensi, M.**, Kovačević, V., Sabbatini, A., Langone, L., Dominiczak, A. T., Povea, P., and Morigi, C.: Living and dead foraminiferal assemblages of the last decades from Kveithola Trough: Taphonomic processes and ecological highlights, *Marine Micropaleontology*, 166, 102014, <https://doi.org/10.1016/j.marmicro.2021.102014>, **2021.**
8. Gačić, M., Ursella, L., Kovačević, V., Menna, M., Malačić, V., **Bensi, M.**, Negretti, M.-E., Cardin, V., Orlić, M., Sommeria, J., Viana Barreto, R., Viboud, S., Valran, T., Petelin, B., Siena, G., and Rubino, A.: Impact of dense-water flow over a sloping bottom on open-sea circulation: laboratory experiments and an Ionian Sea (Mediterranean) example, *Ocean Sci.*, 17, 975–996, <https://doi.org/10.5194/os-17-975-2021>, **2021.**
9. Hure M., Batistić M., Kovačević V., **Bensi M.**, Garić R., Copepod community structure in Pre- and Post- Winter Conditions in the Southern Adriatic Sea (NE Mediterranean). *J. Mar. Sci. Eng.* 2020, 8(8), 567; <https://doi.org/10.3390/jmse8080567>, 2020.
10. Gačić, M., & **Bensi, M.**, Ocean Exchange and Circulation. *Water*, 12(3), 882. <https://doi.org/10.3390/w12030882>, **2020.**
11. Rubino, A., Gačić, M., **Bensi, M.**, Kovačević, V., Malačić, V., Menna, M., et al.. Experimental evidence of long-term oceanic circulation reversals without wind influence in the North Ionian Sea. *Scientific Reports*, 10(1), 1–9. <https://doi.org/10.1038/s41598-020-57862-6>, **2020.**
12. Njire, J.; Batistić, M.; Kovačević, V.; Garić, R.; **Bensi, M.** Tintinnid Ciliate Communities in Pre- and Post-Winter Conditions in the Southern Adriatic Sea (NE Mediterranean). *Water*, 11, 2329, 2019.

13. Šantić, D.; Kovačević, V.; **Bensi, M.**; Giani, M.; Vrdoljak Tomaš, A.; Ordulj, M.; Santinelli, C.; Šestanović, S.; Šolić, M.; Grbec, B. Picoplankton Distribution and Activity in the Deep Waters of the Southern Adriatic Sea. *Water*, 11, 1655, **2019**.
14. Zoppini A., Ademollo N., **Bensi M.**, Berto D., Bongiorno L., Campanelli A., Casentini B., Patrolecco L., Amalfitano S. Impact of a river flood on marine water quality and planktonic microbial communities. *Journal: Estuarine, Coastal and Shelf Science*, 224, 62-72, <https://doi.org/10.1016/j.ecss.2019.04.038>, **2019**.
15. Pearlman J., **et al.** Evolving and Sustaining Ocean Best Practices and Standards for the Next Decade, *Frontiers in Marine Science*, doi: 10.3389/fmars.2019.00277, **2019**.
16. **Bensi, M.**; Kovačević, V.; Langone, L.; Aliani, S.; Ursella, L.; Goszczko, I.; Soltwedel, T.; Skogseth, R.; Nilsen, F.; Deponte, D.; Mansutti, P.; Laterza, R.; Rebesco, M.; Rui, L.; Lucchi, R.G.; Wählin, A.; Viola, A.; Beszczynska-Möller, A.; Rubino, A. Deep Flow Variability Offshore South-West Svalbard (Fram Strait). *Water*, 11, 683, **2019**.
17. Skejić S., Arapov J., Kovačević V., Bužančić M., **Bensi M.**, Giani M., Bakrač A., Mihanović H., Gladan Ž. N., Urbini L., Grbec B. Skejić. Coccolithophore diversity in open waters of the middle Adriatic Sea in preand post-winter periods., *Marine Micropaleontology* 143 (2018) 30–45, <https://doi.org/10.1016/j.marmicro.2018.07.006> , **2018**.
18. Artale V., Falcini F., Marullo S., **Bensi M.**, Kokoszka F., Iudicone D. & Rubino A., Linking mixing processes and climate variability to the heat content distribution of the Eastern Mediterranean abyss, *Scientific Reports*, vol. 8, 11317, **2018**.
19. Mihanović H., Janecović I, Vilibić I., Kovacević V., and **Bensi M.**, Modelling Interannual Changes in Dense Water Formation on the Northern Adriatic Shelf. *Pure and Applied Geophysics*, 10.1007/s00024-018-1935-5, **2018**.
20. de Ruggiero P., Zanchettin D., **Bensi M.**, Hainbucher D., Stenni B., Pierini S., Water masses in the Eastern Mediterranean Sea: an analysis of measured isotopic oxygen. *Pure and Applied Geophysics*. <https://doi.org/10.1007/s00024-018-1850-9> , **2018**.
21. Ingrosso G., **Bensi M.**, Cardin V., Giani M., Anthropogenic CO2 in a dense water formation area of the Mediterranean Sea. *Deep Sea Research – I*, Volume 123, May 2017, Pages 118–128, <https://doi.org/10.1016/j.dsr.2017.04.004>, **2017**.
22. Querin, S., **Bensi, M.**, Cardin, V., Solidoro, C., Bacer, S., Mariotti, L., Stel, F. and Malačić, V., Saw tooth modulation of the deep water thermohaline properties in the southern Adriatic Sea. **J. Geophys. Res.Oceans**, 121, doi:10.1002/2015JC011522, **2016**.
23. **Bensi M.**, Velaoras D., Meccia L.V., Cardin V., Effects of the Eastern Mediterranean Sea circulation on the thermohaline properties as recorded by fixed deep-ocean observatories. *Deep Sea Research - I*, Volume 112, June 2016, Pages 1–13, doi:10.1016/j.dsr.2016.02.015, **2016**.
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66. Bensi M., Marinho R.A., Maia, L.P.”Estudo preliminar da circulação costeira no entorno do emissário submarino de Fortaleza - Ceará, com utilização de sonda ADCP”. Engineering of fishing Congress, Fortaleza, Ceará, Brasil, October 2005, CONBEP 2005. p. 831-844.

TALKS, SEMINARS, WORKSHOPS, MEETINGS

1. **Bensi M. Invited (by the Italian Embassy) speaker** at the Scientific Event “*Italia-Brasile: sulle orme di Amerigo Vespucci, dal Mediterraneo all’Atlantico*”. Organized at Fortaleza, Brasil, by the Italian Embassy in Brazil. 6 Oct. 23
2. **Bensi M. Invited Speaker** at the Training course on “Maritime robotics in blue Economy”, 15-17 May 2023, Trieste, Italy.
3. **Bensi M** et al. Results and perspectives from the Italian deep-sea observatory in the Arctic: a joint effort. International Conference THEMES, Venice, November 2022.
4. **Bensi M** et al. Oceanographic changes in the Svalbard. Arctic ROOS General Assembly, 8-9 February 2022.
5. **Bensi M** et al. The Offshore Italian Marine Observing system at Svalbard. Marine infrastructure network workshop, 07 December 2021.
6. **Invited speaker** at the Polar Science and climate change Cooperation between Italian Institutions and the Arctic and Antarctic Institute of the Russian Federation – Future perspectives, 26 November 2021.
7. **Bensi M** et al. S1 and ID2: deep moorings south-west of Svalbard. Marine infrastructure network workshop, 19 November 2020. (https://sios-svalbard.org/news_20201013)
8. **Bensi M** et al. Outcomes from workshop in Marine System at Svalbard, SIOS webinar: Marine science in Svalbard. 27 November 2020. (https://sios-svalbard.org/News_20201118)
9. Gacic M., **Bensi M.**, et al.. The Adriatic-Ionian Bimodal Oscillating System (BiOS-CRoPEX). Hydralab Joint User Meeting, Bucharest, 23 May 2019.
10. **Bensi M.** et al. SOA-Spitsbergen Oceanic and Atmospheric interaction. SIOS workshop, Copenhagen, 5-6 March 2019.
11. **Invited Speaker** at the BTS workshop (international interdisciplinary field workshop of maritime robotics and applications), 30th Sept – 7th Oct 2018, Biograd na Moru, Croatia. Lecture: “EXPLORING THE OCEAN AND THE SEABED: OCEANOGRAPHIC CASE STUDIES WHERE MARINE ROBOTICS CAN BE APPLIED”.
12. Bensi M. et al. Shelf and slope dynamics offshore the west Svalbard continental margin Workshop “Themes”, Venice, 25th-26th Nov. 2017.
13. Invitation to the meeting ‘Summary of outcomes from the meeting to operationalise the Rio event recommendations’ (EU-Brazil collaborations), EC headquarters, Brussels, 9 March 2016.
14. Kovačević V., et al. Dense water evolution in the Adriatic pits during 2013-14: physical and biogeochemical properties. Final Scientific Conference of PERSEUS project “Integrated Marine Research in the Mediterranean and the Black Sea”, 7-9 Dec. 2015. Poster presentation.
15. **Teacher** at the FixO3 Workshop on training for less experienced users of hardware, organized at OGS, Trieste, Italy, 15-17th September 2016.
16. Bensi M. et al. Effects of the Eastern Mediterranean Sea circulation on the thermohaline properties as recorded by fixed deep-ocean observatories. Workshop “Themes”, Venice, 25th-26th Nov. 2015.
17. **Invitation to** the South-South Workshop on the Tropical and South Atlantic Research Collaboration, Brasilia, 20-22 Oct. 2015.
18. Bensi M. et al. Effects of winter convection on the deep layer of the southern Adriatic Sea in 2015. Venice, ISMAR-CNR, Italian-Croatian RITMARE workshop, June 2015.

19. Ursella L., Cardin V., Bensi M., Siena G., Brunetti F., Partescano E., The Southern Adriatic Interdisciplinary Laboratory for Oceanographic Research: SAILOR E2M3A, 5th China - Italy Collaboration Workshop "Operational Oceanography and Regional Climate Change in the Adriatic and South-East China Seas", Lecce, Italy, 2-4 Dec. 2014.
20. Bensi M. WP3 FIXO3 workshop, Athens, 4-5 Dec. 2014. Common problems and solutions - Towards a harmonization through best practices, 2014.
21. Querin S., Bensi M., Solidoro C., Cardin V., Giaiotti D. B., Bacer S., Malačić V. Is the southern Adriatic Sea characterized by a cyclic alternation of slow mixing and abrupt renewal of the deep water?, XXI Congresso dell' Associazione Italiana di Oceanologia e Limnologia A.I.O.L, Lignano, 23-26 October 2013.
22. Rubino A., Baldi F., Bensi M., S. Borin, V. Bouche, V. Cardin, F. Falcini, D. Hainbucher, M. Mapelli, E. Salusti, D. Zanchettin: "A note on abyssal water masses in the Ionian basin". Variability of the Eastern and Western Mediterranean Circulation and Thermohaline Properties; Similarities and Differences. Workshop Roma, 7-9 Novembre 2011.
23. Bensi M., Hainbucher D., Cardin V., Rubino A. Structure and variability of the abyssal water masses of the Ionian Sea in the period 2009-2010: their links with the Adriatic and Aegean Sea. SESAME final meeting, Athens 4-8 April 2011.
24. Cardin, V., Bensi M, et al., The E2M3A site in the Southern Adriatic 2nd EuroSITES Annual meeting, Trieste, Italy 20th-22nd April 2010. Poster session.
25. Kovacevic V., Bensi M., Cardin V., Civitarese G., Burca M., Kioroglou S., Kontoyiannis Ch., Georgopoulos D., Santinelli C., Schirone A.. Ionian Sea Oceanographic Properties during 2008 SESAME campaigns. SESAME Scientific Workshop, Villefranche, 9-12 November 2009.
26. Giani M., Kovacevic V., Rampazzo F., Savelli F., Bensi M., Cardin V.. Physical and biogeochemical features of the Adriatic Sea during summer and winter 2008. SESAME Scientific Workshop, Villefranche, 9-12 November, 2009.
27. Kovačević V, Burca M., Ursella L., Bensi M., Mauri E., Deponte D. Wintertime hydrographic conditions in the Northern Adriatic in 2008. II annual workshop VECTOR, 25-26 Feb. 2009, Roma.
28. Cardin V. Bensi M., Gacic Miroslav. Long-term salinity and temperature record in the Southern Adriatic Pit from a deep-sea mooring. II annual workshop VECTOR, 25-26 February 2009, Roma.
29. Bensi M., Cardin V., Civitarese G. Seasonal variability of hydrological properties in the southern Adriatic Sea during the vector project (cruises 2006-2008). II annual workshop VECTOR, 25-26 February 2009, Roma.
30. Cardin V., Bensi M., and Bubbi A. Continuation of the VOS program, ADRICOSM – STAR, Second Year Annual Meeting, Kotor, 2-4 February 2009.
31. Bensi M., Cardin V., Bubbi A. Ship Meteorological Data, Outline of the year 2008, ADRICOSM – STAR , Second Year Annual Meeting, Kotor, 2-4 February 2009.
32. Azzaro M., Bensi M., Cardin V., Cerrati G., Civitarese G., Cozzi S., Delfanti R., La Ferla R., Mazzocchi M., Monticelli L.S., Nannicini L., Ribera d'Alcalà M., Salvi S., Santinelli C., Manca B.B. Preliminary results of SESAME-IT2 oceanographic cruise in the Ionian Sea. SESAME 1st Scientific Workshop, Palma de Mallorca, Spain 18-20 November 2008.
33. Giani M., Catalano G., Cardin V., Rampazzo F., Luchetta A., Kovacevic V., Savelli F., Cozzi S., Cantoni C., Bensi M., Manca B. Oceanographic features of the Adriatic Sea during late winter 2008. SESAME 1st Scientific Workshop, Palma de Mallorca, Spain 18 - 20 November 2008.
34. Burca M., Kovačević V., Bensi M. Thermohaline properties in the Northern Adriatic in February 2008. Recent Advances in Adriatic Oceanography and Marine Meteorology, 5 – 7 November 2008, Dubrovnik, Croatia.
35. Cardin V., Deponte D., Bensi M. Continuation of the VOS program, ADRICOSM-STAR First Year Annual Meeting, Podgorica, April 9-11, 2008.

TECHNICAL REPORTS

1. Ivaldi R. **et al.**, High North 17 cruise report. Italian Navy publication n° 3180, 2017.
2. **Bensi M.** et al. 2017. DEFROST (DEep Flow Regime Off SpiTsbergen) Cruise Report. OGS Report n° 2017/10 Sez. OCE 5 EXO.

3. Coppola L., M. Ntoumas, R. Bozzano, **M. Bensi**, S. Hartman, M. Charcos Llorens, J. Craig. Et al., 2017. FixO3 Handbook of best practices for open ocean fixed observatories. <http://hdl.handle.net/11329/302>.
4. Lucchi R.G. **et al.** 2016. BURSTER (Bottom Currents in a Stagnant Environment) Eurofleets2 Cruise Report. 2016/85 Sez. GEO 11 geos.
5. Cardin V., Brunetti, F., Arena F., Bubbi A., **Bensi M.**, Conese I., Kuchler S., Siena G., Shabrang L.. 2015: Multidisciplinary Approach to Research in Permanent Oceanographic Sites, FIX03-RITMARE-03, September 2014, Cruise Report N. 2015/13 sez. OCE 5 EXO (.pdf).
6. **Bensi M.** et al. "SIRIAD14 OGS CRUISE REPORT". Rel. n° 2015 / 1 sez. OCE 1 ExO.
7. **Bensi M.** and Cardin V. "A Matlab package to process meteorological data collected onboard the ferry 'Venezia', along the route Trieste-Durres-Bari (2007-2009)". 2009/115 OGA22 OCE. IN-OGS, Trieste. 2009.
8. **Bensi M.** and Kuchler S. "Progetti vector e sesame: metodologia di elaborazione dei dati CTD raccolti nelle crociere di febbraio e marzo 2008". Rel.2009/100 OGA 17 OCE. IN-OGS, Trieste. 2009.
9. **Bensi M.** and Conley D. Data control quality and comparison between ADCP and ADV data recorded in a very shallow water area on the northwest coast of Sardinia, Porto Ferro, Italy. NATO Undersea Research Centre, La Spezia, Italy, 2006.
10. **Bensi M.**, Monteiro, L.H.U. , "Correntometria e batimetria lungo ao longo do litoral da cidade de Jaboatão dos Guararapes-RECIFE-Pernambuco", LABOMAR, Brazil, 2005.
11. **Bensi M.**, Monteiro, L.H.U.. "Correntometria e batimetria ao longo do litoral da cidade de Olinda-RECIFE – Pernambuco", Brazil, LABOMAR, 2005.
12. **Bensi M.**, Monteiro, L.H.U.. "Correntometria e batimetria no estuario do rio Mamanguape, Paraíba. Brazil", LABOMAR, 2005.