

Curriculum Vitae

Manuel Bensi



Italy ;



mbensi@inogs.it



<http://www.ogs.trieste.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](#)

Sex male | Nationality Italian

Degrees + Scientific Career

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

Work Experience

2008-present	National Institute of Experimental Oceanography and Geophysics (OGS), Trieste, Italy. Researcher at the division of oceanography
2006	NATO Undersea Research Centre (NURC), La Spezia, Italy. Research Assistant Programme (3 months). Project on ADCP data analysis in very shallow coastal area
2006	NAVIMETEO MIGRAZIONI s.r.l.: Meteo forecaster, dealing with the acquisition of meteorological data and the development of services and educational programs.
2004-2006	Institute of Tropical Marine Sciences – LABOMAR – Federal University of Cearà, Fortaleza, Brazil. Research assistant (founded by Brazilian Government), Coastal oceanography.
2002-2003	Hydrographic Institute of the Italian Navy “MARINA MILITARE ITALIANA”, Genova, Italy. Research assistant/student working on the Univ. degree thesis.

Biography

Marine scientist in the field of physical oceanography with extensive experience in ocean data acquisition and analysis. His scientific activity focuses on thermohaline deep sea circulation, dense water formation, and climate change in the Mediterranean Sea and Polar regions. Author and co-author in more than 80 scientific publications, including articles in journals, book chapters, and conference proceedings. Participation in more than 25 oceanographic cruises (Mediterranean Sea, Atlantic and Arctic Ocean). Member of the Italian Scientific Commission for Antarctica (CSNA), member of the scientific committee for the icebreaker r/v Laura Bassi, and OGS representative at the Arctic ROOS (Regional Ocean Observing System). Coordinator and task leader in several national and international projects. Supervisor of doctoral students. Reviewer and guest editor for several ISI journals. He speaks 3 languages (Italian, English, Portuguese).

LIST OF SCIENTIFIC PUBLICATIONS PEER-REVIEWED ISI-JOURNAL PAPERS*(SCOPUS H-INDEX: 14; GOOGLE SCHOLAR H-INDEX: 15, SINCE 2011)*

1. **Bensi, M.**, Kovačević, V., Donda, F., O'Brien, P. E., Armbrecht, L., and Armand, L.: Water masses distribution offshore the Sabrina Coast (East Antarctica), *Earth Syst. Sci. Data Discuss.* [preprint], <https://doi.org/10.5194/essd-2021-245>, in review, 2021.
2. 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.
3. 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.
4. 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.
5. 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.
6. Hure M., Batistić M., Kovačević V., **Bensi M.**, Garic 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.
7. Gačić, M., & **Bensi, M.**, Ocean Exchange and Circulation. *Water*, 12(3), 882. <https://doi.org/10.3390/w12030882>, 2020.
8. 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.
9. 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.
10. **Bensi, M.**; Kovačević, V.; Langone, L.; Aliani, S.; Ursella, L.; et al. Deep Flow Variability Offshore South-West Svalbard (Fram Strait). *MDPI-Water*, 11, 683, <https://doi.org/10.3390/w11040683>, 2019.
11. 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.
12. 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.
13. 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.
14. **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.; Wåhlin, A.; Viola, A.; Beszczynska-Möller, A.; Rubino, A. Deep Flow Variability Offshore South-West Svalbard (Fram Strait). *Water*, 11, 683, 2019.
15. 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.

16. 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**.
17. 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**.
18. 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**.
19. 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**.
20. 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**.
21. **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](https://doi.org/10.1016/j.dsr.2016.02.015), June 2016, Pages 1–13, [doi:10.1016/j.dsr.2016.02.015](https://doi.org/10.1016/j.dsr.2016.02.015), **2016**.
22. Ravaioli M., **et al.**, The RITMARE Italian Fixed-point Observatory Network (IFON) for marine environmental monitoring: a case study. *Journal of Operational Oceanography*. 9:sup1, s202-s214, DOI:10.1080/1755876X.2015.1114806, **2016**.
23. Rubino A., **Bensi M.**, Hainbucher D., Zanchettin D., Mapelli F., Ogrinc N., et al. Biogeochemical, Isotopic and Bacterial Distributions Trace Oceanic Abyssal Circulation. *PLoS ONE* 11(1): e0145299. doi:10.1371/journal.pone.0145299, **2016**.
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25. Cardin, V., Civitarese, G., Hainbucher, D., **Bensi, M.**, and Rubino, A.: Thermohaline properties in the Eastern Mediterranean in the last three decades: is the basin returning to the pre-EMT situation?, *Ocean Sci.*, 11, 53-66, doi:10.5194/os-11-53-2015, **2015**.
26. **Bensi M.**, Cardin V., and Rubino A. «Thermohaline Variability and Mesoscale Dynamics Observed at the Deep-Ocean Observatory E2M3A in the Southern Adriatic Sea», in “The Mediterranean Sea: Temporal Variability and Spatial Patterns”, *Geophysical Monograph Series*, edited by G.L.E. Borzelli, M. Gačić, P. Lionello, and P. Malanotte-Rizzoli, John Wiley & Sons, Inc., 2014, pp. 139–155, **2014**.
27. Gačić, M., Civitarese, G., Kovačević, V., Ursella, L., **Bensi, M.**, Menna, M., et al. Extreme winter 2012 in the Adriatic: an example of climatic effect on the BiOS rhythm, *Ocean Sci.*, 10, 513 – 522, 2014, www.ocean-sci.net/10/513/2014/, doi:10.5194/os-10-513-2014, **2014**.
28. Hainbucher, D., Rubino, A., Cardin, V., Tanhua, T., Schroeder, K., and Bensi, M., 2014: Hydrographic situation during cruise M84/3 and P414 (spring 2011) in the Mediterranean Sea, *Ocean Sci.*, 10, 669-682, doi:10.5194/os-10-669-2014, **2014**.
29. Bensi, M., V. Cardin, A. Rubino, G. Notarstefano, and P. M. Poulain. Effects of winter convection on the deep layer of the Southern Adriatic Sea in 2012, *J. Geophys. Res. Oceans*, 118, doi:10.1002/2013JC009432, **2013**.
30. Schroeder, K., **et al.** (2013): Long-term monitoring programme of the hydrological variability in the Mediterranean Sea: a first overview of the HYDROCHANGES network, *Ocean Sci.*, 9, 301-324, doi:10.5194/os-9-301-2013, **2013**.
31. **Bensi M.**, A. Rubino, V. Cardin, D. Hainbucher, and I. Mancero-Mosquera. Structure and variability of the abyssal water masses in the Ionian Sea in the period 2003-2010, *J. Geophys. Res. Oceans*, 118, doi: 10.1029/2012JC008178, **2013**.
32. Rubino **et al.** Abyssal undular vortices in the Eastern Mediterranean basin, *Nature Communications*, 3, 834, doi:10.1038/ncomms1836, **2012**.
33. Rubino A., Romanenkov D., Zanchettin D., Cardin V., Hainbucher D., **Bensi M.**, Boldrin A., Langone

- L., Miserocchi S., Turchetto M. On the descending of dense water on a complex canyon in the southern Adriatic basin. **Continental Shelf Research**. doi:10.1016/j.csr.2010.11.009, **2012**.
34. Cardin V., **Bensi M.** and Pacciaroni M., Variability of water mass properties in the last two decades in the Southern Adriatic Sea with emphasis on the period 2006-2009. **Continental Shelf Research**, Volume 31, Issue 9, 951–965, doi:10.1016/j.csr.2011.03.002, **2011**.

Chapters in Books

35. **Bensi, M.**; Kovacevic, V.; Langone, L.; Miserocchi, S.; Demarte M.; Ivaldi R. Spitsbergen Oceanic and Atmospheric interactions (SOA), In: Van den Heuvel et al. (eds): SESS report **2019**, Svalbard Integrated Arctic Earth Observing System, Longyearbyen, pp. 250 – 261, ISBN 978-82-691528-6-9.
36. **Bensi, M.**; Kovacevic, V.; Ursella, L.; Rebesco, M.; Langone, L.; Viola, A.; Mazzola, M.; Beszczynska-Möller, A.; Goszczko, I.; Soltwedel, T.; et al. Spitsbergen Oceanic and Atmospheric interactions -SOA; In SESS report 2018 The State of Environmental Science in Svalbard – an annual report.; Orr et al (eds), Longyearbyen, Svalbard Integrated Arctic Earth Observing System (SIOS): Longyearbyen, **2019**; ISBN 978-82-691528-0-7.
37. Manzella G.M.R., Cardin V., Reseghetti F., **Bensi M.**, Bozzano R., The Mediterranean Ship-of-Opportunity and Buoy-Based Observation System, Edition: Collana "I Quaderni di Arpa" Publisher: Operational oceanography in Italy toward a sustainable management of the sea. Editor: Arpa Emilia-Romagna, pp. 306. ISBN: 978-88-87854-29-9. 2012
38. Ravaioli M. , M. Pastore, A. Guarnieri, V. Cardin, **M. Bensi**, G. Bortoluzzi, R. Bozzano, P. Focaccia, S. Pensieri, N. Pinardi, P. Picco, A. Russo, G. Stanghellini Using Data from Oceanographic buoys in Hydrodynamics Forecasting Models. Edition: Collana "I Quaderni di Arpa" Publisher: Operational oceanography in Italy toward a sustainable management of the sea. Editor: Arpa Emilia-Romagna , pp. 306. ISBN: 978-88-87854-29-9. 2012.

Monographs

39. *Ph.D. Thesis*: Thermohaline variability and mesoscale dynamics observed at the E2M3A deep-site in the South Adriatic Sea, PhD Thesis, University of Trieste, 107 pp., **2012** [Available on <http://hdl.handle.net/10077/7387>].
40. *Ms.C Thesis*: "Aplicação do correntômetroacústico ADCP em ambientes marinhos e estuarinos do Ceará e Paraíba – Nordeste do Brasil", 128 pp., Universidade Federal do Ceará, Instituto de Ciências do Mar, Fortaleza, **2006** [Available on <http://www.repositorio.ufc.br/handle/riufc/1308>].
41. *Ms.C Thesis*: "Circolazione nel Mar Piccolo di Taranto su scala sinottica locale ". Università degli Studi di Genova, Italy, **2003**.

Datasets published with DOI

1. Bensi, Manuel; De Vittor, Cinzia; Buenz, Stefan: Physical oceanography during cruise HelmerHanssen2013007 (ECO2-CAGE), DOI: 10.1594/PANGAEA.828346. 2014.
2. Bensi, Manuel; De Vittor, Cinzia; Buenz, Stefan: ADCP measurements in the Barents Sea during cruise HelmerHanssen2013007 (ECO2-CAGE), DOI:10.1594/PANGAEA.836230. 2014.
3. Cardin, Vanessa; Bensi, Manuel: [10.6092/36728450-4296-4e6a-967d-d5b6da55f306](https://doi.org/10.6092/36728450-4296-4e6a-967d-d5b6da55f306), [E2M3A-2006-2010-time-series-SouthAdriatic](https://doi.org/10.6092/E2M3A-2006-2010-time-series-SouthAdriatic). 2014.
4. Cardin, Vanessa; Bensi, Manuel; Siena, Giuseppe; Ursella, Laura: [10.6092/84cb588d-97e5-4c64-91bb-ba6109dfa530](https://doi.org/10.6092/84cb588d-97e5-4c64-91bb-ba6109dfa530), [E2M3A-2011-2013-time-series-SouthAdriatic](https://doi.org/10.6092/E2M3A-2011-2013-time-series-SouthAdriatic). 2014.
5. Cardin, Vanessa; Bensi, Manuel; Siena, Giuseppe; Ursella, Laura: [10.6092/f8e6d18e-f877-4aa5-a983-a03b06ccb987](https://doi.org/10.6092/f8e6d18e-f877-4aa5-a983-a03b06ccb987), [E2M3A-2013-2015-time-series-SouthAdriatic](https://doi.org/10.6092/E2M3A-2013-2015-time-series-SouthAdriatic). 2015.