

# Ivica Vilibić - Curriculum Vitae (June 2021)

## PERSONAL DATA

- *Name:* Ivica Vilibić
- *Born:* 6 September 1969 in Kotor, Montenegro
- *Family status:* married, wife Ljerka, kids Roko, Krešimir, Iva and Tin
- *Address (office):* Institute of Oceanography and Fisheries, Šetalište I. Meštrovića 63, 21000 Split, Croatia
- *URL:* <https://www.irb.hr/eng/About-RBI/People/Ivica-Vilibic>
- *Email:* [ivica.vilibic@irb.hr](mailto:ivica.vilibic@irb.hr)

## EDUCATION

- 1994: B.Sc. in Meteorology, Faculty of Science, University of Zagreb, Croatia
- 1998: M.Sc. in Physical Oceanography, Faculty of Science, University of Zagreb, Croatia
- 2002: Ph.D. in Physical Oceanography, Faculty of Science, University of Zagreb, Croatia
- Training Courses:
  - ▶ 1997: Course on Shallow Water and Shelf Sea Dynamics, International Centre for Theoretical Physics, Trieste, Italy
  - ▶ 1997: IOC/CIESM Training Course on Sea Level Observation and Analysis, Proudman Oceanographic Laboratory, Bidston, UK

## EMPLOYMENT

- 1994-2004: research scientist at Hydrographic Institute of the Republic of Croatia - Split, Oceanographic Department
- 2004-2007 Institute of Oceanography and Fisheries, Split, Assistant Scientist
- 2007-2010 Institute of Oceanography and Fisheries, Split, Associate Scientist
- 2010-2021 Institute of Oceanography and Fisheries, Split, Full Scientist
- 2021- Ruđer Bošković Institute, Zagreb, Full Scientist

## RESEARCH INTEREST

- Sea level oscillations at high resolutions, tsunamis and meteotsunamis, natural hazards, extremes
- Mean sea level changes, trends and climate projections, impacts on the coastal infrastructure
- Regional climate modelling, ultra-high resolution numerical models, surrogate climate modelling
- Water masses and thermohaline circulation, long-term trends and climate fluctuations
- Marine biogeosciences, sclerochronology, microbial food web, ecological imprints, fisheries
- Coastal oceanography, coastal hazards
- Neural networks, uncertainty quantification, stochastic approaches in geosciences

## SCIENTIFIC PUBLICATIONS AND REVIEWING

- About 135 original peer-review scientific papers indexed in Web of Science
- More than 100 conference proceedings and presentations
- About 2750 citations (Web of Science), h-index = 29
- Reviewer to a hundred of papers for journals: *Nature*, *Nature Communications*, *Global and Planetary Change*, *Journal of Geophysical Research*, *Geophysical Research Letters*, *Marine Ecology*

*Progress Series, Marine Chemistry, Marine Geology, Fisheries Oceanography, Deep-Sea Research, Continental Shelf Research, Dynamics of Atmospheres and Oceans, Science of the Total Environment, Philosophical Transactions A, Ocean Science, Ocean Dynamics, Geoscientific Model Development, Estuarine Coastal and Shelf Science, Pure and Applied Geophysics, Frontiers in Marine Science, Natural Hazards and Earth System Sciences, Oceanologia, Regional Environmental Change, Theoretical and Applied Climatology, Applied Ocean Research, Physics and Chemistry of the Earth, Journal of Ocean Engineering and Marine Energy, European Journal of Mechanics B, Scientia Marina, Journal of Marine Science and Engineering, Chinese Journal of Oceanology and Limnology, Terrestrial Atmospheric and Oceanic Sciences, Acta Adriatica, Geofizika, Journal of Geological Research, Advances in Meteorology*

- Guest Editor for special issue *Physics and Chemistry of the Earth* (2009) and *Natural Hazards* (2014, 2021) on meteorological tsunamis, *Pure and Applied Geophysics* (2018) on meteorology and climatology of the Mediterranean and Black Seas
- Editor in journals *Frontiers of Marine Science*, *Natural Hazards*, *Acta Adriatica* and *Geofizika*
- Editor-in-Chief of the international book „*Meteorological tsunamis: the U.S. East Coast and other coastal regions*“ (Springer)
- Reviewer of the projects for *Ministry of Science, Education and Sport of the Republic of Croatia*, *Canadian Foundation for Climate and Atmospheric Sciences (CFCAS)*, *USA National Science Foundation (NSF)*, *Estonian Science Foundation (ETAG)*, *Croatian Foundation for Science (HRZZ)*, *Unity Through Knowledge Fund (UKF)*, *Israeli Ministry of Science, Technology and Space*, *The Malta Council for Science and Technology*

#### CURRENT PROJECTS AND PROGRAMMES

- **2021-: *Using stochastic surrogate methods for advancing towards reliable meteotsunami early warning systems*, ECMWF Special Project, project leader**
- 2021-: *Numerical modelling of the Adriatic-Ionian decadal and inter-annual oscillations: from realistic simulations to process-oriented studies*, ECMWF Special Project, researcher
- 2020-: *Bivalves: Archives of environmental change in the coastal marine ecosystems* (BivACME), Croatian Science Foundation, researcher
- 2019-: *Middle Adriatic upwelling and downwelling* (MAUD), Croatian Science Foundation project, consultant

#### FINISHED PROJECTS AND PROGRAMMES

- 2019-2021: *Coastal Autopurification Assessment Technology* (CAAT), Programme IRI2017 „Investment in Research and Innovation“ – EU Structural Funds, researcher
- **2019-2021: *Integrated hydrographic system for sustainable development of the marine ecosystem* (HIDROLAB), Programme IRI2017 „Investment in Research and Innovation“ – EU Structural Funds, IOF coordinator**
- 2019-2021: *Adaption booster for climate change* (RESPONSe), Interreg Croatia-Italy programme, researcher
- **2019-2021: *Ecological observing System in the Adriatic Sea: oceanographic observations for biodiversity* (ECOSS), Interreg Croatia-Italy programme, IOF coordinator**
- **2019-2021: *Climate challenges on coastal and transitional changing environments: Weaving a cross-Adriatic response* (CHANGE WE CARE), Interreg Croatia-Italy programme, IOF coordinator**
- **2017-2021: *The Adriatic decadal and interannual oscillations: observations, modelling and consequences* (ADIOS), Croatian Science Foundation, Principal Investigator**
- **2016-2021: *BLUEMED*, Horizon 2020 project, Coordinated and Support Action, IOF coordinator**
- 2015-2019: *Sclerochronology as a tool for detecting long-term Adriatic environmental changes* (SCOOL), Croatian Science Foundation, researcher

- 2015-2017: *Meteotsunamis, destructive long ocean waves in the tsunami frequency band: from observations and simulations towards a warning system* (MESSI), UKF Fund project, researcher
- 2015-2017: *Praćenje potencijalno opasnih oscilacija razine mora i njihov doprinos poplavama obalnih područja u budućoj klimi* (POZOR), Fund for Environment and Energetic Efficiency, researcher
- 2014-2017: *Bio-tracing Adriatic water masses* (BIOTA), Croatian Science Foundation Installation Grant, consultant
- 2013-2017: *Towards an alliance of European research fleets (EUROFLEET-II)*, FP7 project, researcher
- 2013-2015: *Strengthening common reaction capacity to fight sea pollution of oil, toxic and hazardous substances in Adriatic Sea* (HAZADR), IPA CBC Adriatic project, researcher
- 2011-2015: *Policy-oriented marine environmental research for the Southern European Seas* (PERSEUS), FP7 project, researcher
- **2013-2015: *Interpreting and forecasting Adriatic surface currents by an artificial brain (NEURAL)*, UKF Fund project, Principal Investigator**
- **2007-2013: *Investigations and monitoring systems for the unusual Adriatic dynamics*, national research grant 001-0013077-1122, project leader**
- 2007-2013: *The role of the planktonic communities in the energy and substance cycles in the Adriatic Sea*, national research grant 001-0013077-0845, researcher
- **2011-2013: *Towards a meteotsunami warning system along the U.S. coastline (TMEWS)*, NOAA/NWS USA Department of Commerce grant NA11NWS4670005, Principal Investigator**
- 2006-2011: *Southern European Seas: Assessing and Modelling Ecosystem Changes* (SESAME), EU FP6 project, researcher
- **2009-2010: *Application of advanced algorithms in operational oceanography (IP-OCEAN)*, national IT project, project manager**
- 2007-2008: *North Adriatic Surface Current Mapping* (NASCUM), Croatian-Italian project Interreg IIIa, researcher
- 1998-2008: *Project ADRIATIC*, national monitoring programme, researcher
- 2005-2007: *Internal Tidal Hydrodynamics and Ambient Characteristics of the Adriatic* (ITHACA) - bilateral USA-Croatian project, researcher
- 2003-2006: *Atmosphere-Adriatic system*, national research grant 0119330, researcher
- 2004-2006: *Structural and trophic changes in the Adriatic shelf pelagial*, national research grant 0001001, researcher
- 2005-2006: *ADRICOSM EXTension*, multilateral project of the Adriatic countries, researcher
- **2001-2005: *European Sea Level Service – Research Infrastructure (ESEAS-RI)*, EU FP5 funded project, researcher and coordinator for Hydrographic Institute**
- 2004-2005: *Weather and climate of the Adriatic Sea*, national IT project, project manager
- 2003-2004: *A course in oceanography*, national IT project, project manager
- 2001-2004: *East Adriatic Circulation Experiment* (EACE) – bilateral American-Croatian project, researcher
- **2001-2002: *Adriatic sea level and tides on-line*, national IT project, project leader**
- 2000-2001: *Sea level in the northern Adriatic - phenomenological aspects and modelling*, bilateral Italian-Croatian project, researcher

## TEACHING

- 2007-2015: *Introductory to Ocean Sciences*, Interdisciplinary PhD study „Applied ocean sciences“, University of Split
- 2009-2019: *Introductory to Physical Oceanography*, undergraduate study „Environmental physics“, Faculty of Science, University of Split
- 2009-2019: *Physical Oceanography of the Adriatic and Mediterranean*, undergraduate study „Environmental physics“, Faculty of Science, University of Split

## STUDENTS AND POSTDOCS

- Sara Medak, undergraduate student training, 2020-
- Iva Tojčić, PhD student, 2020-
- Petra Pranić, PhD student, 2019-
- Petra Zemunik, PhD student, 2018-
- Clea Denamiel, postdoctoral researcher, 2017-2020
- Cyril Diamantopoulos, undergraduate student training, 2017
- Mehdi Guebba, undergraduate student training, 2017
- Celia Bolzer, undergraduate student training, 2017
- Oussama Marzouk, undergraduate student training, 2017
- Sebastien Delort, undergraduate student training, 2016
- Khady Mbow, undergraduate student training, 2016
- Natalija Dunić, PhD student, 2015-2019, postdoctoral researcher, 2020-
- Nicolas Buisson, undergraduate student training, 2015
- Romain Leppe, undergraduate student training, 2015
- Amaury Lafon, undergraduate student training, 2014
- Loïc Macheboeuf, undergraduate student training, 2014
- Hrvoje Kalinić, postdoctoral researcher, 2014-2016
- Hrvoje Mihanović, postdoctoral researcher, 2014-2016
- Natalija Dunić, undergraduate student, 2012-
- Simon Pasquet, postdoctoral researcher, 2012
- Jeremie Rotier, undergraduate student training, 2012
- Remi Marchand, undergraduate student training, 2012
- Nikolina Rako, PhD student, 2011-
- Jadranka Šepić, PhD student, 2007-2015, postdoctoral researcher, 2015
- Nicolas Proust, undergraduate student training, 2011
- Francois Charrayre, undergraduate student training, 2011
- Zoran Adam Gaxotte, undergraduate student training, 2009
- Lydie Denis, undergraduate student training, 2008

## EDITORIAL ACTIVITIES AND ORGANISATION OF CONFERENCES

- *The 12th HyMeX Workshop*, 20-24 May 2019, Split, Croatia, Chair of the Organising Committee
- *The First World Conference on Meteotsunamis*, 8-11 May 2019, Split, Croatia, Chair of Science and Organising Committee
- *Meteotsunamis and High-Frequency Sea-Level Phenomena of Meteorological Origin*, AGU Fall Meeting Session, San Francisco, USA, 3-7 December 2012, Lead Convener
- *International Symposium on 80th Anniversary of the Institute of Oceanography and Fisheries: Towards the Excellence in Oceanography and Fisheries*, Split, 21-22 October 2010, Organisation Committee member
- *International Symposium on Meteotsunamis: 30th Anniversary of the Great Flood of Vela Luka on 21 June 1978*, Vela Luka, Croatia, 19-21 June 2008, Chair of the Organising Committee
- *Sea Level Variations: Towards an Operational European Sea Level Service, Final Workshop of ESEAS-RI project*, Split, 5-6 October 2005, Chair of the Organising Committee
- *Sea Level in Europe: Observation, Interpretation and Exploitation*, Final Workshop of COST40 Action, Dubrovnik, 19-21 September 2001, Organisation Committee member
- *Tide tables - eastern Adriatic coast*, annual publication of the Hydrographic Institute of the Republic of Croatia, editor 1995-2003
- *Report on sea level measurements along the eastern Adriatic coast*, annual publication of the Hydrographic Institute of the Republic of Croatia, editor 1995-2003

## MAJOR RESEARCH COLLABORATIONS

- Rick E. Thomson, Alexander Rabinovich; *Meteotsunamis*; Institute of Ocean Sciences, Sidney, Canada
- Chin Wu, Xun Huan; *Meteotsunamis, Stochastic approach in geosciences*; Uni. Wisconsin, USA
- Jeff W. Book; *Operational oceanography*; Naval Research Laboratory, Stennis, USA
- Philip Chu, Eric Anderson; *Meteotsunamis*; NOAA, USA
- Sebastian Monserrat; *Meteotsunamis*; University of Balearic Islands, Spain
- Stefano Tinti, Nadia Pinardi; *Tsunamis, operational oceanography*; University of Bologna, Italy
- Davide Bonaldo, Alessandra Pugnetti; *Climate change, ecosystem changes*; CNR-ISMAR, Venice, Italy
- Pierre-Marie Poulain, Miroslav Gacic, Alessandro Crise; *Coastal and regional oceanography*; OGS, Trieste, Italy
- Kevin Horsburgh, David Williams; *Meteotsunamis*; National Oceanographic Centre, Liverpool, UK
- Charitha Pattiaratchi; *Meteotsunamis, coastal oceanography*; University of Western Australia, Perth,
- Samuel Somot, Florence Sevaut; *Regional climate modelling*; CNRM –MeteoFrance, Toulouse, France
- Jadranka Šepić; *Meteotsunamis, oceanography of semi-enclosed seas*; University of Split, Croatia
- Xun Huan; *Stochastic methods in geosciences*; University of Michigan, USA
- Andrey Babeyko; *Tsunamis*; GFZ Potsdam, Germany

## MEMBERSHIP

- American Geophysical Union (AGU)
- European Geosciences Union (EGU)
- Commission Internationale pour l'Exploration Scientifique de la mer Méditerranée (CIESM)
- International Association for the Physical Sciences of the Oceans (IAPSO)

## PROFESSIONAL ACTIVITIES

- 2005-: UNESCO IOC Intergovernmental Coordination Group for the Tsunami Early Warning and Mitigation System in the North Eastern Atlantic, Mediterranean and Connected Seas (ICG/NEAMTWS), national representative
- 2006-2013: National Commission for the Framework Programme, member
- 2008-2013: National Council for Innovation System, member
- 2011-2013: FP7 Programme Committee for Environment and Climate Change, national expert delegate
- 2011-2013: Scientific Committee for Natural Sciences of the Croatian Science Foundation, member
- 2011-2013: Executive Council of the UNESCO Intergovernmental Oceanographic Commission (IOC), national representative
- 2011-: European Marine Board, representative of the Institute of Oceanography and Fisheries
- 2012-2016: Institute for Adriatic Crops and Karstic Reclamation, chair of Governing Board
- 2013-2020: Horizon 2020 Programme Committee member for Societal Challenge 2
- 2013-2016: National Commission for the Framework Programme, chair
- 2013-: Croatian Academy of Sciences and Arts, Council for the Adriatic Sea research, member
- 2014-2016: Croatian Committee on Ethics in Science and Higher Education, member
- 2015-2018: European Network of Research Integrity Offices, delegate
- 2015-2019: BLUEMED Initiative, national delegate
- 2016-2018: Croatian Committee on Ethics in Science and Higher Education, chair
- 2016-: Joint Programming Initiative (JPI) Oceans, national delegate

- 2016-2017: UNESCO Ad Hoc Expert Group (AHEG) for the Declaration on the Ethical Principles in relation to Climate Change, member
- 2020-: EuroGOOS Tide Gauge Task Team, member
- 2020-: European Ocean Observing System (EOOS) Operations Committee, member
- 2020-: JPI Oceans Science for Good Environmental Status (S4GES) Group of Experts, member

## AWARDS

- 1999: National Young Scientist Award in the field of Natural Sciences
- 2002: Ferruccio Mosetti Prize, Honorable Mention
- 2012: National Scientist Award in the field of Natural Sciences

## IVICA VILIBIĆ – published papers (March 2021)

### WoSCC research papers:

1. Denamiel, C, Tojčić, I., Vilibić, C., 2021. Balancing accuracy and efficiency of atmospheric models in the northern Adriatic during severe bora events. *Journal of Geophysical Research Atmospheres*, 126, e2020JD033516.
2. Vilibić, I., Denamiel, C., Zemunik, P., Denamiel, C., 2020. The Mediterranean and Black Sea meteotsunamis: An overview. *Natural Hazards*, <https://doi.org/10.1007/s11069-020-04306-z>.
3. Zemunik, P., Bonanno, A., Mazzola, S., Giacalone, G., Fontana, I., Genovese, S., Basilone, G., Candela, J., Šepić, J., Vilibić, I., Aronica, S., 2020. Observing meteotsunamis („Marrobbio“) in the southwestern coast of Sicily. *Natural Hazards*, <https://doi.org/10.1007/s11069-020-04303-2>.
4. Kazeminezhad, M.H., Vilibić, I., Denamiel, C., Ghafarian, P., Negah, S., 2020. Weather radar and ancillary observations of the convective system causing the northern Persian Gulf meteotsunami on 19 March 2017. *Natural Hazards*, <https://doi.org/10.1007/s11069-020-04208-0>.
5. Denamiel, C., Pranić, P., Quentin, F., Mihanović, H., Vilibić, I., 2020. Pseudo-global warming projections of extreme wave storms in complex coastal regions: the case of the Adriatic Sea. *Climate Dynamics*, 55, 2483-2509. <https://doi.org/10.1007/s00382-020-05397-x>.
6. Denamiel, C., Tojčić, I., Vilibić, I., 2020. Far future climate (2060–2100) of the northern Adriatic air–sea heat transfers associated with extreme bora events. *Climate Dynamics*, 55, 3043-3066. <https://doi.org/10.1007/s00382-020-05435-8>.
7. Medvedev, I., Vilibić, I., Rabinovich, A.B., 2020. Tidal resonance in the Adriatic Sea: Observational evidence. *Journal of Geophysical Research Oceans*, 125, e2020JC016168.
8. Beg Paklar, G., Vilibić, I., Grbec, B., Matić, F., Mihanović, H., Džoić, T., Šantić, D., Šestanović, S., Šolić, M., Ivatek-Šahdan, S., Kušpilić, G., 2020. Record-breaking salinities in the middle Adriatic during summer 2017 and concurrent changes in the microbial food web. *Progress in Oceanography*, 185, 102345. doi: 10.1016/j.pocean.2020.102345
9. Ciglencečki, I., Vilibić, I., Dautović, J., Vojvodić, V., Ćosović, B., Zemunik, P., Dunić, N., Mihanović, H., 2020. Dissolved organic carbon and surface active substances in the northern Adriatic Sea: Long-term trends, variability and drivers. *Science of the Total Environment*, 730, 139104., doi: 10.1016/j.scitotenv.2020.139104
10. Vilibić, I., Zemunik, P., Dunić, N., Mihanović, H., 2020. Local and remote drivers of the observed thermohaline variability on the northern Adriatic shelf (Mediterranean Sea). *Continental Shelf Research*, 199, 104110. doi: 10.1016/j.csr.2020.104110
11. Denamiel, C., Šepić, J., Huan, X., Vilibić, I., 2020. Uncertainty propagation using polynomial chaos expansions for extreme sea level hazard assessment: the case of the eastern Adriatic meteotsunamis. *Journal of Physical Oceanography*, 50, 1005-2021.
12. Radilović, S., Koračin, D., Denamiel, C., Belušić, D., Güttler, I., Vilibić, I., 2020. Can regional models reproduce air temperature variabilities and trends in coastal areas? The case of the eastern Adriatic. *Atmospheric Science Letters*, 21, e951.
13. Janeković, I., Mihanović, H., Vilibić, I., Grčić, B., Ivatek-Šahdan, S., Tudor, M., Djakovac, T., 2020. Multi-platform 4D-Var data assimilation for improving the Adriatic Sea dynamics. *Ocean Modelling*, 146, 101538. doi: 10.1016/j.ocemod.2019.101538.
14. Denamiel, C., Šepić, J., Huan, X., Bolzer, C., Vilibić, I., 2019. Stochastic surrogate model for meteotsunami early warning system in the eastern Adriatic Sea. *Journal of Geophysical Research Oceans*, 124, 8485-8499. doi: 10.1029/2019JC015574.
15. Biolchi, S., Denamiel, C., Devoto, S., Korbar, T., Macovaz, V., Scicchitano, G., Vilibić, I., Furlani, S., 2019. Impact of the October 2018 storm Vaia on coastal boulders in the northern Adriatic Sea. *Water*, 11, 2229, doi: 10.3390/w11112229.
16. Tintoré, J., Pinardi, N., Álvarez-Fanjul, E., Aguiar, E., Álvarez-Berastegui, D., Bajo, M., Balbin, R., Bozzano, R., Buongiorno Nardelli, B., Cardin, V., Casas, B., Charcos-Llorens, M., Chiggiato, J., Clementi, E., Coppini, G., Coppola, L., Cossarini, G., Deidun, A., Deudero, S., D'Ortenzio, F., Drago, A., Drudi, M., El Serafy, G., Escudier, R., Farcy, P., Federico, I., Fernández, J.G., Ferrarin, C., Fossi, C., Frangoulis, C., Galgani, F., Gana, S., García Lafuente, J., Sotillo, M.G., Garreau, P., Gertman, I., Gómez-Pujol, L., Grandi, A., Hayes, D., Hernández-Lasheras, J., Herut, B., Heslop, E., Hilmi, K.,

- Juza, M., Kallos, G., Korres, G., Lecci, R., Lazzari, P., Lorente, P., Liubartseva, S., Louanchi, F., Malačič, V., Mannarini, G., March, D., Marullo, S., Mauri, E., Meszaros, L., Mourre, B., Mortier, L., Muñoz-Mas, C., Novellino, A., Obaton, D., Orfila, A., Pascual, A., Pensieri, S., Pérez Gómez, B., Pérez Rubio, S., Perivoliotis, L., Petihakis, G., de la Villéon, L.P., Pistoia, J., Poulain, P.-M., Pouliquen, S., Prieto, L., Raimbault, P., Reglero, P., Reyes, E., Rotllan, P., Ruiz, S., Ruiz, J., Ruiz, I., Ruiz-Orejón, L.F., Salihoglu, B., Salon, S., Sammartino, S., Sánchez Arcilla, A., Sánchez-Román, A., Sannino, G., Santoleri, R., Sardá, R., Schroeder, K., Simoncelli, S., Sofianos, S., Sylaios, G., Tanhua, T., Teruzzi, A., Testor, P., Tezcan, D., Torner, M., Trotta, F., Umgiesser, G., von Schuckmann, K., Verri, G., Vilibić, I., Yucel, M., Zavatarelli, M., Zodiatis, G., 2019. Challenges for sustained observing and forecasting systems in the Mediterranean Sea. *Frontiers in Marine Science*, 6, 568, doi: 10.3389/fmars.2019.00568.
17. Vilibić, I., Zemunik, P., Šepić, J., Dunić, N., Marzouk, O., Mihanović, H., Denamiel, C., Precali, R., Djakovac, T., 2019. Present-climate trends and variability in thermohaline properties of the northern Adriatic shelf. *Ocean Science*, 15, 1351–1362.
  18. Matić, F., Kalinić, H., Vilibić, I., Grbec, B., Morožin, K., 2019. Self-Organising Maps-derived air temperature and precipitation patterns over the Adriatic-Ionian region and their relation to hemispheric indices. *Climate Research*, 78, 149-163.
  19. Peharda, M., Walliser, E.O., Markulin, K., Purroy, A., Uvanović, H., Janeković, I., Župan, I., Vilibić, I., Schöne, B.R., 2019. *Glycymeris pilosa* (Bivalvia) – A high-potential geochemical archive of the environmental variability in the Adriatic Sea. *Marine Environmental Research*, 150, 104759.
  20. Peharda, M., Vilibić, I., Black, B., Uvanović, H., Markulin, K., Mihanović, H., 2019. A network of bivalve chronologies from semienclosed seas. *PLoS ONE*, 14, e0220520.
  21. Denamiel, C., Šepić, J., Ivanković, D., Vilibić, I., 2019. The Adriatic Sea and coast modelling suite: Evaluation of the meteotsunami forecast component. *Ocean Modelling*, 135, 71-93.
  22. Biolchi, S., Furlani, S., Devoto, S., Scicchitano, G., Korbar, T., Vilibić, I., Šepić, J. 2019. Origin and dynamics of coastal boulders in a semi-enclosed shallow basin: a Northern Adriatic case study. *Marine Geology*, 411, 62-77.
  23. Dunić, N., Vilibić, I., Šepić, J., Mihanović, H., Sevault, F., Somot, S., Waldman, R., Nabat, P., Arsouze, T., Pennel, R., Jordà, J., Precali, R. 2019. Performance of multi-decadal ocean simulations in the Adriatic Sea. *Ocean Modelling*, 134, 84-109.
  24. Mihanović, H., Janeković, I., Vilibić, I., Kovačević, V., Bensi, M., 2018. Modelling interannual changes in dense water formation on the northern Adriatic shelf. *Pure and Applied Geophysics*, 175, 4065-4081.
  25. Denamiel, C., Šepić, J., Vilibić, I., 2018. Impact of geomorphological changes to harbor resonance during meteotsunamis: The Vela Luka Bay test case. *Pure and Applied Geophysics*, 175, 3839-3859.
  26. Grbec, B., Matić, F., Beg Paklar, G., Morović, M., Popović, R., Vilibić, I., 2018. Long-term trends, variability and extremes of in situ sea surface temperature measured along the eastern Adriatic coast and its relationship to hemispheric processes. *Pure and Applied Geophysics*, 175, 4031-4046.
  27. Vilibić, I., Šepić, J., Dunić, N., Sevault, F., Monserrat, S., Jordà, G., 2018. Proxy-based assessment of strength and frequency of meteotsunamis in future climate. *Geophysical Research Letters*, 45, 10501-10508.
  28. Matić, F., Kalinić, H., Vilibić, I., 2018. Interpreting Self-Organizing Map errors in the classification of ocean patterns. *Computers and Geosciences*, 119, 9-17.
  29. Babić, I., Mucko, M., Petrić, I., Bosak, S., Mihanović, H., Vilibić, I., Dupčić Radić, I., Cetinić, I., Balestra, C., Casotti, R., Ljubešić, Z., 2018. Multilayer approach for characterization of bacterial diversity in a marginal sea: From surface to seabed. *Journal of Marine Systems*, 184, 15-27.
  30. Peharda, M., Vilibić, I., Black, B.A., Markulin, K., Dunić, N., Džoić, T., Mihanović, H., Gačić, M., Puljas, S., Waldman, R., 2018. Using bivalve chronologies for quantifying environmental drivers in a semi-enclosed temperate sea. *Scientific Reports*, 8, 5559, doi: 10.1038/s41598-018-23773-w.
  31. Šepić, J., Vilibić, I., Rabinovich, A.B., Tinti, S., 2018. Meteotsunami ("Marrobbio") of 25-26 June 2014 on the Southwestern Coast of Sicily, Italy. *Pure and Applied Geophysics*, 175, 1573-1593.
  32. Dunić, N., Vilibić, I., Šepić, J., Somot, S., Sevault, F., 2018. Dense water formation and BiOS-induced variability in the Adriatic Sea simulated using an ocean regional circulation model. *Climate Dynamics*, 51, 1211-1236.
  33. Vilibić, I., Mihanović, H., Janeković, I., Denamiel, C., Poulain, P.-M., Orlić, M., Dunić, N., Dadić, V., Pasarić, M., Muslim, S., Gerin, R., Matić, F., Šepić, J., Mauri, E., Kokkini, Z., Tudor, M., Kovač, Ž., Džoić, T., 2018. Wintertime dynamics in the coastal northeastern Adriatic Sea: the NAdEx 2015 experiment. *Ocean Science*, 14, 237-258.



34. Lučić, D., Ljubešić, Z., Babić, I., Bosak, S., Cetinić, I., Vilibić, I., Mihanović, H., Hure, M., Njire, J., Lučić, P., Kružić, P., 2017. Unusual winter zooplankton bloom in the open southern Adriatic Sea. *Turkish Journal of Zoology*, 41, 1024-1035.
35. Kalinić, H., Mihanović, H., Cosoli, S., Tudor, M., Vilibić, I., 2017. Predicting ocean surface currents using numerical weather prediction model and Kohonen neural network - a northern Adriatic study. *Neural Computing and Applications*, 28, S611-S620.
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37. Kokkini, Z., Gerin, R., Poulain, P.-M., Mauri, E., Pasarić, Z., Janeković, I., Pasarić, M., Mihanović, H., Vilibić, I., 2017. A multiplatform investigation of Istrian Front dynamics (north Adriatic Sea) in winter 2015. *Marine Mediterranean Science*, 18, 344-354.
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