Nadia Pinardi

Curriculum Vitae · Updated November 2026

Principal Scientist, Institute for Earth System Predictions | Physical Oceanography

E-mail: nadia.pinardi@cmcc.it · Born: February 22, 1956 · Nationality: Italian

EDUCATION

1976-1980	Degree in Physics, Bologna University, 110/110 cum laude.
1981-1983	Master in Applied Physics, Harvard University, Cambridge, U.S.A.
1983-1985	Ph.D. in Applied Physics (Physical Oceanography), Harvard University, Cambridge, U.S.A.

RESEARCH INTERESTS AND INTERNATIONAL ACTIVITIES

Nadia PINARDI holds a Ph.D. in Applied Physics from Harvard University, and she has been Professor of Oceanography at the Department of Physics and Astronomy of Bologna University. Her interests range from ocean numerical modelling and forecasting to data assimilation for the physical components of the marine environment, development of the marine biogeochemical models and oil spill numerical modelling coupled to operational oceanographic forecasts. She has written more than two hundred papers in peer reviewed journals on a wide range of oceanographic modelling and oceanographic data analysis subjects. She has coordinated, since the middle of the nineties, the development and implementation of operational oceanography in the Mediterranean Sea and later in the Black Sea.

Her most recent interests focus on the strategy for science-based coastal management principles, the definition of coastal resilience and the evidence based coastal adaptation planning with Digital Twins of the Coastal Ocean.

AWARDS

2007	European Geophysical Union (EGU) Fridtjof Nansen Medal for Oceanography (http://www.egu.eu/awards-medals/fridtjof-nansen/).
2008	UNESCO Intergovernmental Oceanographic Commission (IOC) Roger Revelle Medal.
2015	**Italian Republic Honors "Commendatore Ordine al merito della Repubblica italiana"- for her scientific contribution in strategic fields for the sustainable development such as oceanography and climatology**
2017	Laurea Honoris Causa for Operational Oceanography at the University of Liege, Belgium. (https://events.uliege.be/dhcdr/docteurs-honoris-causa-2017/)
2025, July	**2025 IAPSO Prince Albert I Medal** for outstanding contributions to the enhancement and advancement of the physical sciences of the oceans. More specifically, "For her outstanding contribution to defining the principles, methods and applications of ocean modelling and forecasting. Her pioneering contribution to operational oceanography, her dedicated services through international governing bodies (i.e. UN Decade Collaborative Center for Coastal Resilience) are remarkable achievements that have and continue to greatly benefit the ocean sciences and society for many years to come."

PROFESSIONAL EXPERIENCE — ITALY

PERIOD	POSITION
Nov. 2026	Principal Scientist, CMCC Foundation
2022- Oct. 2026	Director, UN Decade Collaborative Center for Coastal Resilience, Department of Physics and Astronomy, University of Bologna
2018- Oct. 2026	Full Professor of Physical Oceanography at the University of Bologna, Dept. of Physics and Astronomy

2018-2022	Coordinator of the University of Bologna PhD program "Future Earth, Climate Change and societal Challenges" : https://phd.unibo.it/future-earth-climate-change-societal-challenges/en
2016-2021	Coordinator of University of Bologna PhD program in "Geophysics"
2015-2022	Member of the Strategy Board of the Centro Euro-Mediterraneo sui Cambiamenti Climatici Foundation
1999- 2018	Associate Professor of Physical Oceanography at the University of Bologna, Dept. of Physics and Astronomy
2004-2013	Director of the National Group of Operational Oceanography, INGV
2001-2017	Associate researcher (scientific affiliation) at the Istituto Nazionale di Geofisica e Vulcanologia (INGV)
2007-present	Associate researcher (scientific affiliation) at Centro Euro-Mediterraneo per i Cambiamenti Climatici (CMCC)
2000-2003	Associate researcher (scientific affiliation) at Istituto Geologia Marina-CNR, Bologna
1994-1998	Lecturer of Geophysical Fluid Dynamics at the University of Bologna, Italy.
1986-1999	Research scientist at the Centro Nazionale Ricerche (CNR), Bologna.

PROFESSIONAL EXPERIENCE — UNITED STATES

PERIOD	POSITION
1986-1988	Post-Doctoral Fellow in Physical Oceanography, Harvard Univ., Cambridge, U.S.A. (6 months in a year)
1992-1994	Visiting scientist at the Geophysical Fluid Dynamics Laboratory, Princeton University, Princeton, New Jersey, USA (6 months a year).
1992-2001	Visiting scientist at the National Center for Atmospheric Research (NCAR), Boulder, Colorado (1 month in July)
2002-2011	Visiting scientist at the North West Research Associates, Colorado Research Associates (CoRA), Boulder, Colorado (1 month)
2012-2019	Visiting scientist at the Cooperative Institute for Research in Environmental Sciences (CIRES), Colorado University, Boulder, USA (1 month)
2022-2023	Visiting scientist at the Mechanical Engineering Department of University of Colorado, Boulder, USA (1 month)
2024	Visiting scientist at the Cooperative Institute for Research in Environmental Sciences (CIRES), Colorado University, Boulder, USA (1 month)

INTERNATIONAL COMMITTEES (LAST 10 YEARS)

PERIOD	POSITION
2009-2016	**Co-Chair** of the Memorandum of Agreement for "Italy-China Program for Operational Oceanography and Climate Change Research"
2010-2015	Global Ocean Observing System (GOOS) National Contact person for the UNESCO-IOC
2012-2020	**Co-president of the Joint Committee for Oceanography and Marine Meteorology** (Joint WMO and IOC-Unesco Committee)
2018-2022	**Member** of the Mercator Ocean International Management Board
2019- 2023	**Elected Vice-president,** World Meteorological Organization Commission for Observation, Infrastructure and Information Systems (Infrastructure Commission)
2019	**Member** of the evaluation Committee for the Leibniz Institute for Baltic Sea Research, Warnemunde, DE

2019	**International Member** of the Gulf Of Mexico Research Initiative (GOMRI) Synthesis Workshop
2019-2024	**Member** of the International scientific Steering Committee of SOCIB, Palma del Mallorca, Spain
2020-present	**Elected member of the European Academy of Sciences**
2021-2024	**Member of the "Assemblea della Commissione Nazionale Italiana per l'UNESCO" (Assembly of the Italian UNESCO Committee)**
2021-2024	**Co-Chair of the Knowledge Hub for Sea Level** Rise joint initiative of JPI-Climate and JPI-Oceans
2021-2024	**Member of the International Steering Committee** of the Marine Environmental Observation Prediction & Response network (MEOPAR), Canada
2023-2025	**Membro Esperto** della Commissione interministeriale per il riassetto e la codificazione delle normative vigenti in materia ambientale**.**
2021-2027	**Member of the International Advisory Board** of the Deutsche Allianz Meeresforschung (DAM), Germany
2023-2027	**Member of the Scientific Council of the** UNESCO Regional Bureau for Science and Culture in Europe, Venice
2022-2030	**Chair,** UN Decade Program CoastPredict
June 2022- Oct. 2026	**Director** of the Decade Collaborative Center for Coastal Resilience, University of Bologna

EDITORIAL ACTIVITIES

1999-2006	**Topic Editor** of *Annales Geophysicae*, EGU Journal, Ocean section.
2005-2017	**Topic Editor** of Ocean Science, EGU Journal
2007-2020	**Associate editor** of *Journal of Operational Oceanography*
2011-2017	**Member of the Editorial Board of The Sea**, Journal of Marine Research, Yale University
2012-2017	**Topic Editor** of *Natural Hazards and Earth System Science*, EGU Journal
2017-2023	**Editor**, *Journal of Geophysical Research Oceans*
2024-2027	**Associate Editor in Chief,** Ocean-Land-Atmosphere Research

BOOKS

- Pinardi, N. and J. Woods, 2002. Ocean Forecasting: Conceptual Basis and Applications Springer Science & Business Media - 472 pages
- Pinardi Nadia, 2009. Misurare il Mare, Bononia University Press - 83 pages
- Pinardi, N., P.F.J. Lermusiaux, K.H. Brink and R.H.Preller, 2017. The Science of Ocean Prediction. In "The Sea" Vol. 17, 707 pages, Supplement to the *Journal of Marine Research,* Volume 75, Issues 3 and 6, Yale University Press.

PUBLICATIONS

Web of Science (as of November 2026)

Publications found	**224**
Sum of the Times Cited (without self citations)	**8817**
h-index	**53**

Google Scholar

Citations	**17974**
h-index	**72**
i10-index	**213**

REFEREED JOURNAL PUBLICATIONS

1. **N. Pinardi,** A. Speranza e A. Trevisan, 1985. "Inertial circulation of the Western Mediterranean"*Nuovo Cimento C*, Vol. 8(6), pp 822-841.
2. A. R. Robinson, J. A. Carton, **N. Pinardi,** C. N. K. Mooers, 1986. "Dynamical forecasting and dynamical interpolation: an experiment in the California current system", *Journal of Physical Oceanography*, Vol. 16(9), pp 1561-1579.
3. **N. Pinardi** and A. R. Robinson, 1986. "Quasigeostrophic energetics of open ocean regions", *Dynamics of Atmosphere and Oceans*, Vol. 10(3), pp 185-221.
4. **N. Pinardi** and A. R. Robinson, 1987. "Dynamics of deep thermocline jets in the Polymode Region", *Journal of Physical Oceanography*, Vol. 17(8), pp.1163-1188.
5. A. R. Robinson, A. Hecht, **N. Pinardi,** Y. Bishop, W. G. Leslie, Z. Rosentroub, A. J. Mariano, S. Brenner, 1987. "Small synoptic/mesoscale eddies: the energetic variability of the Eastern Levantine basin", *Nature,* Vol. 327, No. 6118, pp. 131-134.
6. A. Hecht, **N. Pinardi,** A. R. Robinson, "Currents, Water Masses, Eddies and Jets in the Mediterranean Levantine Basin", *Journal of Physical Oceanography*, Vol. 18, No. 10, pp. 1320-1353, (1988).
7. Robinson, A. R., M. Spall, **N. Pinardi**, 1988. "Gulf Stream simulations and the Dynamics of Ring and Meander Processes", *Journal of Physical Oceanography*, Vol. 18, No. 12, pp. 1811-1853.
8. **Pinardi, N.** and R.F.Milliff, 1989. "A note on Consistent Quasigeostrophic Boundary Conditions in Partially Open, Simply and Multiply Connected Domains", *Dynamics of Atmospheres and Oceans,* 14 (1-2): 65-76, pp. 65-76.
9. Masina, S. and **N. Pinardi,** 1991. "Merging of barotropic symmetric vortices. A case study for Gulf Stream Rings", *Il Nuovo Cimento,* Vol. 14C, No. 6, pp. 539-553.
10. The POEM Group, (A. R. Robinson, omissis, **N. Pinardi**, omissis), 1992. "General circulation of the Eastern Mediterranean", *Earth Sciences Review,* 32 (4), pp 285-309.
11. Paschini, E., A. Artegiani and **N. Pinardi,** 1993. "The mesoscale eddy field of the middle Adriatic Sea", *Deep Sea Research I,* Vol. 40, No. 7 , pp 1365-1377.
12. **Pinardi, N.** and A.Navarra, 1993. "Baroclinic wind adjustment processes in the Mediterranean Sea", *Deep Sea Research II,* Vol. 40, No. 6, 1299-1326.
13. Nittis, K., **N. Pinardi** and A. Lascaratos, 1993. "Characteristics of the summer 1987 flow field in the Ionian Sea", *Journal of Geophysical Research*, Vol. 98, No. C6, pp 10171-10184.
14. Masina, S. and **N. Pinardi,** 1993. "The halting effect of baroclinicity in vortex merging", *Journal of Physical Oceanography,* Vol.23, No. 8, pp 1618-1637.
15. Masina, S. and **N. Pinardi**, 1994. **"**Mesoscale data assimilation studies in the middle Adriatic Sea", *Continental Shelf Research*, Vol. 14, No. 12, pp. 1293-1310.
16. **Pinardi, N**., A. Rosati and R.C. Pacanowski, 1995. "The sea surface pressure formulation of rigid lid models. Implications for altimetric data assimilation studies", *Journal of Marine Systems*, 6, (1995), pp. 109-119.
17. Roussenov, V., E. Stanev, V. Artale and **N. Pinardi,** 1995. "A seasonal model of the Mediterranean Sea", *Journal of Geophysical Research*, Vol. 100, C7, 13515-13538.
18. **Pinardi, N.,** G. Korres, A. Lascaratos, V. Roussenov and E. Stanev, 1997. "Numerical simulation of the interannual variability of the Mediterranean Sea upper ocean circulation", *Geophysical Research Letters*, Vol. 24(4), pp.425-428.
19. Artegiani, A., D. Bregant, E. Paschini, **N. Pinardi,** F. Raicich and A. Russo**,** 1997. "The Adriatic Sea General Circulation. Part I: air-sea interactions and water mass structure", *Journal of Physical Oceanography* , Vol. 27, 1492-1514.
20. Artegiani, A., D. Bregant, E. Paschini, **N. Pinardi,** F. Raicich and A. Russo, 1997. "The Adriatic Sea General Circulation. Part II: baroclinic circulation structure", *Journal of Physical Oceanography*, Vol. 27, 1515-1532.
21. Castellari,S., **N. Pinardi** and K. Leaman, 1998. "A model study of air-sea interactions in the Mediterranean Sea", *Journal of Marine Systems*, 18, 89-114.
22. Angelucci, M.G., **N. Pinardi,** and S. Castellari, 1998. "Air-sea Fluxes from operational analyses fields: intercomparison between ECMWF and NCEP analyses over the Mediterranean area", *Physics and Chemistry of the Earth*, 23, 569-574.
23. Maggiore, A., M. Zavatarelli, M. G. Angelucci and **N. Pinardi,** 1998. "Surface Heat and Water Fluxes in the Adriatic Sea: Seasonal and Interannual Variability", *Physics and Chemistry of the Earth*, 23, 561-567.
24. Molcard, A., **N. Pinardi,** R. Ansaloni, 1998. "A spectral element ocean model on the Cray T3D: the interannual variability of the Mediterranean Sea general circulation", *Physics and Chemistry of the Earth,* vol. 23, n.. 5-6, 491-495.
25. M. Vichi, **N. Pinardi,** M. Zavatarelli, G. Matteucci, M. Marcaccio, M. C. Bergamini, F. Frascari, 1998. "One-dimensional ecosystem model tests in the Po Prodelta area (Northern Adriatic Sea)" *Environmental Modelling and Software*, 13, 471-481.

26. Vichi, M., M. Zavatarelli, and **N. Pinardi,** "Seasonal modulation of microbially mediated carbon fluxes in the northern Adriatic Sea. A model study.", *Fishery Oceanography,* 7(3/4), pp. 182-190 (1998).

27. Korres, G., **N. Pinardi,** A. Lascaratos, 2000. "The ocean response to low frequency interannual atmospheric variability in the Mediterranean Sea. Part I: Sensitivity experiments and energy analysis", *Journal of Climate*, 13, pp. 705-731.

28. Korres, G., **N. Pinardi,** A. Lascaratos, 2000. "The ocean response to low frequency interannual atmospheric variability in the Mediterranean Sea. Part II:Empirical Orthogonal Functions Analysis", *Journal of Climate*, 13, pp. 732-745.

29. Zavatarelli, M., J.W. Baretta, J.G.Baretta-Bekker, **N. Pinardi,** 2000. "The dynamics of the Adriatic Sea ecosystem. An idealized model study", *Deep-Sea Research I*, 47, pp. 937-970.

30. Wu, P., K. Haines, **N. Pinardi,** 2000. "Toward an Understanding of Deep-Water Renewal in the Eastern Mediterranean", *Journal of Physical Oceanography*, **30**, pp. 443-458.

31. **Pinardi, N.** and E. Masetti, 2000. "Variability of the large-scale general circulation of the, Mediterranean Sea from observations and modelling: a review", *Palaeogeography, Palaeoclimatology*, *Palaeoecology* ,158, pp. 153-173.

32. Castellari, S., **N. Pinardi** and K. Leaman, 2000. "Simulation of water mass formation processe in the Mediterranean Sea: influence of the time frequency of the atmospheric forcing" , *Journal of Geophysical Research*, 105, pp. 24157-24181 .

33. Masina, S., **N. Pinardi** and A. Navarra, 2001. "A global ocean temperature and altimeter data assimilation system for studies of climate variability", *Climate Dynamics*, 17, pp. 687-700 .

34. Brankart, J.-M. and **N. Pinardi,** 2001**.** "Abrupt cooling of the Mediterranean Levantine Intermediate Water at the beginning of the eighties: observational evidence and model simulation.", *Journal of Physical Oceanography*, 31, pp. 2307-2320.

35. Molcard, A., **N. Pinardi,** M. Iskandarami and D.B. Haidvogel, 2002. "Wind driven general circulation of the Mediterranean Sea simulated with a Spectral Element Ocean Model.", *Dynamics of Atmosphere and Oceans*, 17, pp. 97-130.

36. Zavatarelli, M., **N. Pinardi,** V.H. Kourafalou and A. Maggiore**,** 2002. "Diagnostic and Prognostic Model studies of the Adriatic Sea general Circulation: Seasonal variability", *Journal of Geophysical Research*, 107(C1), pp. 1-20.

37. Beckers, J.-M. , M. Rixen, P. Brasseur, J.-M. Brankart, A Elmoussaoui, M. Crépon, Ch. Herbaut, F. Martel, F. Van Den Berghe, L. Mortier, A. Lascaratos, P. Drakopoulos, G. Korres, K. Nittis, **N. Pinardi,** E. Masetti, S. Castellari, P. Carini, J. Tintore, A. Alvarez, et al., 2002. "Model intercomparison in the Mediterranean: MEDMEX simulations of the seasonal cycle", *Journal of Marine Systems*, **33-34**, pp. 215-251 .

38. Demirov, E. and **N. Pinardi**, 2002. "The Simulation of the Mediterranean Sea circulation from 1979 to 1993. Part I: The interannual variability", *Journal of Marine Systems*, **33-34**, pp. 23-50 .

39. Wang, X.H. and **N. Pinardi,** 2002. Modeling the dynamics of sediment transport and resuspension in the northern Adriatic Sea, *Journal of Geophysical Research*, vol. 107, No. C12, 3225, doi:10.1029/2001JC001303.

40. Raicich, F., **N. Pinardi** and A. Navarra, 2003. "Teleconnections between Indian Monsoon and Sahel rainfall and the Mediterranean", *International Journal of Climate*, 23, 173-186 .

41. Demirov, E., **N. Pinardi,** C. Fratianni, M. Tonani, L. Giacomelli, P. De Mey, 2003. "Assimilation scheme of the Mediterranean Forecasting System: operational implementation" *Annales Geophysicae*, 21: 189-204.

42. Sparnocchia, S.**, N. Pinardi** and E. Demirov, 2003. "Multivariate Empirical Orthogonal Function analysis of the upper thermocline structure of the Mediterranean Sea from observations and model simulations", *Annales Geophysicae*, 21: 167-187.

43. Zavatarelli M. and **N. Pinardi,** 2003. "The Adriatic Sea Modeling System: A nested approach" *Annales Geophysicae*, 21 (Part 2): 345-364.

44. Vichi, M., P. Oddo, M. Zavatarelli, A. Coluccelli, G. Coppini, M. Celio, S. Fonda Umani, **N. Pinardi,** 2003. "Calibration and validation of a one-dimensional complex marine biogeochemical flux model in different areas of the northern Adriatic shelf", *Annales Geophysicae,* 21 (Part 2): 413-436.

45. **Pinardi, N.,** I. Allen , E. Demirov, P. De Mey, G.Korres, A.Lascaratos, P-Y. Le Traon, C.Maillard, G. Manzella, C. Tziavos, 2003. The Mediterranean ocean Forecasting System: first phase of implementation (1998-2001), *Annales Geophysicae*, 21: 3-20.

46. Manzella, G.M.R , E. Scoccimarro, **N. Pinardi** and M. Tonani, 2003. "Improved near real time data management procedures for the Mediterranean ocean Forecasting System-Voluntary Observing Ship program", *Annales Geophysicae,* 21: 49-62 .

47. Zodiatis, G., R. Lardner, D. Georgiou, E. Demirov, **N. Pinardi,** G. Manzella, 2003. "The Cyprus Coastal Ocean Forecasting and Observing System", *Sea Technology*, Vol.44, n.10, pp.10-15 .

48. Zodiatis, G., R. Lardner, G. Georgiou, E. Demirov, G. Manzella, **N. Pinardi,** 2003. "An operational European global ocean observing system for the Eastern Mediterranean Levantine Basin: The Cyprus Coastal Ocean Forecasting and Observing System", *Marine Technology Society Journal,* 37 (3): 115-123.

49. Rixen, M., J.-M. Beckers, S. Levitus, J. Antonov, T. Boyer, C. Maillard, M. Fichaut, E. Balopoulos, S. Iona, H. Dooley, M.-J. Garcia, B. Manca, A. Giorgetti, G. Manzella, N. Mikhailov, **N. Pinardi**, M. Zavatarelli, and the Medar Consortium, 2005. "The Western Mediterranean Deep Water: a proxy for climate change", *Geophysical Research Letters,* VOL. 32, L12608, doi:10.1029/2005GL022702.

50. Maillard, C., M. Fichaut, G. Maudire, C. Coatanoan, E. Balopoulos, A. Iona, A. Lykiardopoulos, P. Karagevrekis, J.-M. Beckers, M. Rixen, M.-J. Garcia, B. Manca, A. Giorgetti, A. Mosetti, N. Mikhailov, E. Vyazilov, A. Kuznetsov, N. Puzova, R. Boukortt, B. Boudjellal, N. Eddalia, H. Dooley, A. Drago, S. El-Agami, G. Kortchev, I. Gertman, Y. Tsehtik, S. Lakkis, G. Manzella, I. Oliounine, A. Orbi, J. Larissi, S. Zizah, M. Ozyalvac, F. Berkay, **N. Pinardi,** M. Zavatarelli, A. Suvorov, A. Khaliulin, G. Zodiatis, K. Bilashvili, Z. Savaneli, V. Dadic, V. Diaconu, R. Gelfeld, C. Sammari, 2005. "A Mediterranean and Black Sea Oceanographic Database and Network", *Bollettino di Geofisica Teorica ed Applicata,* Vol.46, n.4. 329-343.

51. Oddo, P., **N. Pinardi** and M. Zavatarelli, 2005. **"**A numerical study of the interannual variability of the Adriatic Sea (2000-2002)", *The Science of the Total Environment, 353, 39-56*.

52. Dobricic, S., **N. Pinardi,** M. Adani, A. Bonazzi, C. Fratianni and M. Tonani, 2005. "Mediterranean Forecasting System: a new assimilation scheme for Sea Level Anomaly and its validation". *Quarterly Journal of the Royal Meteorological Society*, 131, pp. 3627-3642.

53. Bianchi, D., M. Zavatarelli, **N. Pinardi,** R. Capozzi, L. Capotondi, C. Corselli and S. Masina, 2006. "Simulations of ecosystem response during the sapropel S1 deposition event.", *Palaeogeography, Palaeoclimatology, Palaeoecology,* 235, pp. 265–287.

54. Gertman, I., **N.Pinardi,** Y. Popov and A. Hecht, 2006. "Aegean Sea water masses during the early stages of the Eastern Mediterranean Climatic Transient (1988-1990)". *Journal of Physical Oceanography*, Vol. 36, No. 9, pages 1841–1859.

55. Johannessen, J.A., P.-Y. Le Traon, I. Robinson, K. Nittis, M. J. Bell, **N. Pinardi,** and P. Bahurel, 2006. "Marine Environment and Security for the European Area (MERSEA) - Towards operational oceanography". *Bulletin of the American Meteorological Society*, 87, pp. 1081-1090.

56. Polimene, L., **N. Pinardi,** M. Zavatarelli, S. Colella, 2006. "The Adriatic Sea ecosystem seasonal cycle: validation of a three dimensional numerical model". *Journal of Geophysical Research*, Vol. 111, C03S19, doi:10.1029/2005JC003260.

57. Wang, X.H., P. Oddo and **N. Pinardi,** 2006. "On the Gargano bottom density plume and its inter-annual variability in the southern Adriatic Sea, Italy." *Journal Geophysical Research*, Vol. 111, C03S19, doi:10.1029/2005JC003110.

58. Castellari, S., **N.Pinardi** and A. Coluccelli, 2006. The ADRICOSM Pilot Project: a coastal and river basin prediction system for the Adriatic Sea. *Acta Adriatica*, Vol.47 (suppl), pp.5-18.

59. Oddo, P., **N. Pinardi,** M. Zavatarelli and A. Coluccelli, 2006. "The Adriatic Basin Forecasting System". *Acta Adriatica*, Vol.47 (suppl), pp. 169-184.

60. Grezio A. and **N. Pinardi,** 2006. "Data assimilation of temperature and salinity profiles in the Adriatic Regional Model". *Acta Adriatica*, Vol.47 (suppl), pp. 149-168.

61. Wang, X. H., **N. Pinardi** and V. Malacic, 2006. "Sediment transport and resuspension due to combined motion of wave and current in the northern Adriatic Sea during a Bora event in January 2001: A numerical model study". *Continental Shelf Research*, doi:10.1016/j.csr.2006.10.008

62. Vichi M., **N. Pinardi,** S. Masina, 2007. "An advanced model of pelagic biogeochemistry for the global ocean ecosystem. Part I: theory". *Journal of Marine Systems*, 64, pp 89-109.

63. Demirov, E.K. and **N. Pinardi,** 2007. "On the relationship between the water mass pathways and eddy variability in the Western Mediterranean Sea*". Journal of Geophysical Research*, 112, C02024, doi:10.1029/2005JC003174.

64. Polimene, L., **N. Pinardi,** M. Zavatarelli, I. Allen and M. Giani and M. Vichi , 2007. A numerical simulation of DOC accumulation in the northern Adriatic Sea. *Jour. Geophys. Res.* VOL. 112, C03S20, doi:10.1029/2006JC003529.

65. Dobricic, S., **N. Pinardi,** M. Adani, M. Tonani, C. Fratianni, A. Bonazzi and V. Fernandez, 2007. Daily oceanographic analyses by the Mediterranean basin scale assimilation system, *Ocean Sciences*, 3, 149–157.

66. Byun D. and **N.Pinardi,** 2007. Comparison of Marine Insolation Estimating methods in the Adriatic Sea. *Ocean Science Journal*, Vol. 42 No. 4, 211-222.

67. Tonani, M., **N. Pinardi,** S. Dobricic, I. Pujol and C. Fratianni, 2008. A High Resolution Free Surface Model of the Mediterranean Sea. *Ocean Sciences*, 4, 1–14.

68. **Pinardi, N.,** A. Bonazzi, E. Scoccimarro, S. Dobricic, A. Navarra, A. Ghiselli, P. Veronesi, 2008. Very Large Ensemble Ocean Forecasting Experiment Using the Grid Computing Infrastructure. *Bulletin of American Met. Soc.* 89: 799-804 .

69. Oddo P. and **N.Pinardi**, 2008. "Lateral Open Boundary Conditions for Nested Limited Area Models: a process selective approach". *Ocean Modelling* doi:10.1016/j.ocemod.2007.08.001

70. Dobricic, S. and **N.Pinardi**, 2008. An oceanographic three-dimensional variational data assimilation scheme, *Ocean modelling*, 22: 89-105 (2008).

71. Patara, L., **N. Pinardi,** C. Corselli, E. Malinverno, M. Tonani, R. Santoleri, S. Masina, 2009. Particle fluxes in the deep Eastern Mediterranean basins: the role of ocean vertical velocities, *Biogeosciences*, 6, 333-348.

72. Oddo, P., M. Adani, **N. Pinardi,** C. Fratianni, M. Tonani, D. Pettenuzzo, 2009. A Nested Atlantic-Mediterranean Sea General Circulation Model for Operational Forecasting. *Ocean Sciences*, 5, 461-473.

73. Tonani, M., **N. Pinardi,** J. Pistoia, S. Dobricic, S. Pensieri, M. de Alfonso, and K. Nittis, 2009. Mediterranean Forecasting System: forecast and analysis assessment through skill scores, *Ocean Sciences*, 5, 649-660.

74. Taillandier, V., S. Dobricic, P. Testor, **N. Pinardi,** A. Griffa, L. Mortier, G.P. Gasparini, 2009. Integration of ARGO trajectories in the Mediterranean Forecasting System and impact on the regional analysis of the Western Mediterranean circulation. *Jour. Geophys. Res.,* 115, C03007, 17 pp, doi:10.1029/2008JC005251.

75. Michel Rixen, Jeffrey W Book, Alessandro Carta, Vittorio Grandi, Lavinio Gualdesi, Richard Stoner, Peter Ranelli, Andrea Cavanna, Pietro Zanasca, Gisella Baldasserini, Alex Trangeled, Craig Lewis, Chuck Trees, Rafaelle Grasso, Simone Giannechini, Alessio Fabiani, Diego Merani, Alessandro Berni, Michel Leonard, Paul Martin, Clark Rowley, Mark Hulbert, Andrew Quaid, Wesley Goode, Ruth Preller, Nadia Pinardi, Paolo Oddo, Antonio Guarnieri, Jacopo Chiggiato, Sandro Carniel, Aniello Russo, Martina Tudor, Fabian Lenartz, Luc Vandenbulcke, 2009. Improved ocean prediction skill and reduced uncertainty in the coastal region from multi-model super-ensembles, Journal of Marine Systems, 78, 282-289

76. Pettenuzzo, D., W.G. Large and **N.Pinardi,** 2010. On the corrections of ERA-40 surface flux products consistent with the Mediterranean heat and water budgets and the connection between basin surface total heat flux and NAO, *Journal Geophys. Res.,* 115, C06022, 15 pp, doi:10.1029/2009JC005631.

77. Marini, M., Grilli, F., Guarnieri, A., Jones, Klajic, Z., **Pinardi N.,** and M. Sanxhaku, 2010. Is the southeastern Adriatic Sea coastal strip an eutrophic area? *Estuarine, Coastal and Shelf Science*, 88, 395-406.

78. **Pinardi, N.** and G. Coppini, 2010. Operational oceanography in the Mediterranean Sea: the second stage of development. *Ocean Sciences*, 6, 263–267.

79. Dobricic, S., **N. Pinardi,** P. Testor and U. Send, 2010. Data assimilation of glider observations in the Ionian Sea (Eastern Mediterranean): a study of the path of the Atlantic Ionian Stream. *Dynamics of Atmospheres and Oceans*, 50, 78-92, doi:10.1016/j.dynatmoce.2010.01.001.

80. Pujol, M.-I., S. Dobricic, **N. Pinardi,** M. Adani, 2010. Impact of Multi-altimeter Sea Level Assimilation in the Mediterranean Forecasting Model. *J. of Atmo. and Oc. Techn*. , 27, 2065-2082, DOI: 10.1175/2010JTECHO715.1.

81. Coppini, G., M. De Dominicis, G. Zodiatis, R. Lardner, **N. Pinardi,** R. Santoleri, S. Colella, F. Bignami, D. R. Hayes, D. Soloviev, G. Georgiou, G. Kallos, 2011. Hindcast of Oil Spill Pollution during the Lebanon Crisis, Eastern Mediterranean, July-August 2006. *Marine Pollution Bulletin*, 62, 140–153

82. Adani, M., **N.Pinardi** and S.Dobricic, 2011. Quality Assessment of a 1985–2007 Mediterranean Sea Reanalysis, J.Atmo and Ocean. Techn., 569-589, DOI: 10.1175/2010JTECHO798.1

83. Milliff, R., A. Bonazzi, C. Wikle, **N. Pinardi** and M. Berliner, 2011. Ocean Ensemble Forecasting, Part I: Ensemble Mediterranean Winds from a Bayesian Hierarchical Model. *Quarterly Journal Royal Met Society*, DOI:10.1002/qj.767

84. **Pinardi, N.,** A. Bonazzi, S. Dobricic, R. Milliff, C. Wikle, M. Berliner, 2011. Ocean Ensemble Forecasting, Part II: Mediterranean Forecasting System response. *Quarterly Journal Royal Met Society*, DOI:10.1002/qj.816.

85. Bellafiore, D., A. Guarnieri, F. Grilli, P. Penna, G. Bortoluzzi, **N. Pinardi,** 2011. Study of the Hydrodynamical Processes in the BokaKotorska Bay with a Finite Element Model. *Dynamics of Atmospheres and Oceans*, doi:10.1016/j.dynatmoce.2011.03.005

86. Simoncelli, S., **N. Pinardi,** P. Oddo, A. J. Mariano, G. Montanari, A. Rinaldi, M. Deserti, 2011. Coastal Rapid Environmental Assessment in The Northern Adriatic Sea. *Dynamics of Atmospheres and Oceans*, 52, pp 250– 283, doi:10.1016/j.dynatmoce.2011.04.004

87. Nilsson, J.A.U., S.Dobricic, **N.Pinardi**, V. Taillandier and P.-M. Poulain, 2011. On the assessment of ARGO float trajectory assimilation in the Mediterranean Forecasting System, *Ocean Dynamics,* DOI 10.1007/s10236-011-0437-0.

88. Dobricic, S., C. Dufau, P. Oddo, **N. Pinardi,** I. Pujol, and M.-H. Rio, 2012. Assimilation of SLA along track observations in the Mediterranean with an oceanographic model forced by atmospheric pressure. *Ocean Sciences*, 8, 787-795, doi:10.5194/os-8-787-2012

89. Nilsson, J.A.U., S. Dobricic, **N. Pinardi,** P.-M. Poulain, and D. Pettenuzzo**,** 2012. Variational assimilation of Lagrangian trajectories in the Mediterranean ocean Forecasting System, *Ocean Sciences*, 8, 249-259, doi:10.5194/os-8-249-201.

90. Poulain, P.-M., R. Gerin, M. Rixen, P. Zanasca, J. Teixeira, A. Griffa, A. Molcard, M. De Marte and **N. Pinardi,** 2012. Aspects of the surface circulation in the Liguro-Provençal basin and Gulf of Lion as observed by satellite-tracked drifters (2007-2009). *Bollettino di Geofisica Teorica ed Applicata*, Vol. 53, n. 2, pp.261-279, doi:10.4430/bgta0052

91. De Dominicis M., G. Leuzzi, P. Monti, **N. Pinardi,** P.M. Poulain, 2012. Eddy diffusivity derived from drifter data for dispersion model applications, *Ocean Dynamics* 62:1381–1398, doi:10.1007/s10236-012-0564-2

92. Guarnieri, A., **N. Pinardi,** P. Oddo, G. Bortoluzzi, and M. Ravaioli, 2013. Impact of tides in a baroclinic circulation model of the Adriatic Sea*. Journal of Geophysical Research: Oceans*, vol. 118, 166–183, doi:10.1029/2012jc007921, 2013

93. Mannarini, G., G.Coppini, P.Oddo and **N.Pinardi,** 2013. A Prototype of Ship Routing Decision Support System for an Operational Oceanographic Service. *TRANSNAV,* Vol. 7, Nb.1, doi: 10.12716/1001.07.01.06.

94. Coppini, G., V. Lyubarstev, **N. Pinardi,** S. Colella, R. Santoleri and T. Christiansen, 2013. "The Use of Ocean-Colour Data to Estimate Chl-a Trends in European Seas," *International Journal of Geosciences*, Vol. 4 No. 6, pp. 927-949. doi: 10.4236/ijg.2013.46087.

95. De Dominicis, M., **N. Pinardi,** G. Zodiatis, 2013**.** Advanced marine oil spill modelling for short term forecasting. Part I: Theory, 2013. *Geosci. Model Dev.,* 6, 1851–1869, www.geosci-model-dev.net/6/1851/2013/doi:10.5194/gmd-6-1851-2013

96. De Dominicis, M., **N. Pinardi,** G. Zodiatis, R. Archetti, 2013. Advanced marine oil spill modelling for short term forecasting. Part II: Numerical simulations*. Geosci. Model Dev.,* 6, 1871–1888, www.geosci-model-dev.net/6/1871/2013/doi:10.5194/gmd-6-1871-2013

97. Gunduz, M., S. Dobricic, P. Oddo, **N. Pinardi,** A. Guarnieri, 2013. Impact of Levantine Intermediate Water on the interannual variability of the Adriatic Sea based on simulations with a fine resolution ocean model. *Ocean Modelling*, 72, 253-263, ISSN 1463-5003, http://dx.doi.org/10.1016/j.ocemod.2013.10.002.

98. Lamon L., Rizzi J., Bonaduce A., Dubois C., Lazzari P., Ghenim L., Gana S., Somot S., Li L., Melaku Canu D., Solidoro C., **Pinardi N.,** Marcomini A., 2013. An ensemble of models for identifying climate change scenarios in the Gulf of Gabes, Tunisia. *Regional Environmental Change*, DOI: 10.1007/s10113-013-0430-x.

99. Marullo, S., R. Santoleri, D.Ciani, P.Le Borgne, S,Pere, **N. Pinardi,** M.Tonani, G.Nardone, 2014. Combining model and geostationary satellite data to reconstruct hourly SST field over the Mediterranean Sea. *Remote Sensing of Environment*, http://dx.doi.org/10.1016/j.rse.2013.11.001

100. **Pinardi, N.,** A. Bonaduce, A.Navarra, P.Oddo and S.Dobricic, 2014. The mean sea level equation and its application to the Mediterranean Sea. *Journal of Climate*, 27, 442–447, doi: http://dx.doi.org/10.1175/JCLI-D-13-00139.1

101. Cessi, P., **N.Pinardi** and V.Lyubartsev, 2014. Energetics of semi-enclosed basins with two layer flows at the Strait*. Journal of Physical Oceanography*, 44, 967–979. doi: http://dx.doi.org/10.1175/JPO-D-13-0129.1

102. Liubartseva, S., De Dominicis, M., Oddo, P., Coppini, G., **Pinardi, N**., Greggio, N. 2014. Oil spill hazard from dispersal of oil along shipping lanes in the Southern Adriatic and Northern Ionian Seas. *Mar. Pollution Bulletin,* http://dx.doi.org/10.1016/j.marpolbul.2014.10.039

103. Samaras, A.G., De Dominicis, M., Archetti, R., Lamberti, A. and **Pinardi, N.,** 2014. Towards improving the representation of beaching in oil spill models: A case study. *Marine Pollution Bulletin*, 88, pp.91-101, http://dx.doi.org/10.1016/j.marpolbul.2014.09.019.

104. Oddo, P., A. Bonaduce, **N. Pinardi,** and A. Guarnieri, 2014. Sensitivity of the Mediterranean sea level to atmospheric pressure and free surface elevation numerical formulation in NEMO. *Geosci. Model Dev*., 7, 3001–3015. www.geosci-model-dev.net/7/3001/2014/doi:10.5194/gmd-7-3001-2014

105. **Pinardi, N.,** M. Zavatarelli, M. Adani, G. Coppini, C. Fratianni, P. Oddo, S. Simoncelli, M. Tonani, V. Lyubartsev, S. Dobricic, 2015. The Mediterranean Sea large scale low frequency ocean variability from 1987 to 2007: a retrospective analysis, Progress in Oceanography, doi: 10.1016/j.pocean.2013.11.003

106. Sepp Neves, A.A., **N. Pinardi,** F. Martins, J. Janeiro, A. Samaras, G. Zodiatis, M. De Dominicis, 2015. Towards a common oil spill risk assessment framework – Adapting ISO 31000 and addressing uncertainties. *Journal of Environmental Management*, Vol. 159, Pages 158-168, DOI: 10.1016/j.jenvman.2015.04.044

107. Dobricic, S., Wikle, C. K., Milliff, R. F., **Pinardi, N.,** Berliner, L. M., 2015. Assimilation of oceanographic observations with estimates of vertical background-error covariances by a Bayesian hierarchical model Quarterly Journal of the Royal Meteorological Society, 141, 182-194, DOI: 10.1002/qj.2348.

108. Romaniello, V., P. Oddo, M. Tonani, L. Torrisi, A. Grandi and **N. Pinardi,** 2015. Impact of sea surface temperature on COSMO forecasts of a Medicane over the western Mediterranean Sea, Journal of Earth Sciences and Engineering, 4, 389-399.

109. A. Bonaduce, **N. Pinardi**, P. Oddo, G. Spada, G. Larnicol, Sealevel variability in the Mediterranean Sea from altimetry and tide gauges. *Climate Dynamics* (2016) 1-16, doi: 10.1007/s00382-016-3001-2

110. G. Mussap, M. Zavatarelli, **N. Pinardi**, M. Celio,2016. A management oriented 1-D ecosystem model: Implementation in the Gulf of Trieste (Adriatic Sea). *Reg. Stud. Mar. Sci*., 6, 109-123, doi: 10.1016/j.rsma.2016.03.015 - Supplementary material

111. G. Mannarini, **N. Pinardi**, G. Coppini, P. Oddo and A. Iafrati, 2016. VISIR-I: small vessels – least-time nautical routes using wave forecasts. *Geosciences Model Development*, 9, 1597-1625, doi: 10.5194/gmd-9-1597-2016

112. Fratianni, C., **N. Pinardi,** F. Lalli, S. Simoncelli, G. Coppini, V. Pesarino, A. Bruschi, M.L. Cassese & M. Drudi, 2016. Operational Oceanography for the Marine Strategy Framework Directive: the case of the mixing indicator. Journal of Operational Oceanography, s223-s233, DOI:10.1080/1755876X.2015.1115634

113. Pistoia, J., **N. Pinardi**, P. Oddo, M. Collins, G. Korres, and Y. Drillet, 2016. Development of super-ensemble techniques for ocean analyses: the Mediterranean Sea case. Nat. Hazards Earth Syst. Sci., 16, 1807–1819, doi: 10.5194/nhess-16-1807-2016

114. M. DeDominicis, D.Bruciaferri, R.Gerin, **N.Pinardi**, P.M.Poulain, P.Garreau, G. Zodiatis, L.Perivoliotis, L.Fazioli, R.Sorgente, C.Manganiello, 2016. A multi-model assessment of the impact of currents,waves and wind in modelling surface drifters and oil spill. Deep-Sea ResearchII, 133, 21–38, doi: 10.1016/j.dsr2.2016.04.002

115. Jia, W., D. Wang, **N. Pinardi**, S. Simoncelli, A. Storto, and S. Masina, 2016. A quality control procedure for climatological studies using Argo data in the North Pacific Western Boundary Current region, Journal of Atmospheric and Oceanic Technology, doi: 10.1175/JTECH-D-15-0140.1

116. F. Trotta, E. Fenu, **N. Pinardi**, D. Bruciaferri, L. Giacomelli,I. Federico, G. Coppini, 2016. A Structured and Unstructured grid Relocatable ocean platform for Forecasting (SURF). Deep-Sea Res.II, doi: 10.1016/j.dsr2.2016.05.004

117. Zodiatis,G., et al., 2016. The Mediterranean Decision Support System for Marine Safety dedicated to oil slicks predictions, Deep-Sea Res. II, doi: 10.1016/j.dsr2.2016.07.014.

118. Mannarini, G., G. Turrisi, Alessandro D'Anca, Mario Scalas, **N. Pinardi**, G. Coppini, F. Palermo, I. Carluccio, M. Scuro, S. Cretì, R. Lecci, P. Nassisi and L. Tedesco. VISIR: technological infrastructure of an operational service for safe and efficient navigation in the Mediterranean Sea, 2016. Nat. Hazards Earth Syst. Sci., 16, 1791–1806, doi: 10.5194/nhess-16-1791-2016

119. Liubartseva, S., G. Coppini, **N. Pinardi**, M. De Dominicis, R. Lecci, G. Turrisi,S. Cretì, S. Martinelli, P. Agostini, Palmalisa Marra, and F. Palermo. Decision support system for emergency management of oil spill accidents in the Mediterranean Sea, 2016. Nat. Hazards Earth Syst. Sci., 16, 2009–2020, doi: 10.5194/nhess-16-2009-2016

120. Sepp Neves, A.A., **N. Pinardi** and F. Martins, 2016. IT-OSRA: applying ensemble simulations to estimate the oil spill risk associated to operational and accidental oil spills, Climate dynamics, 66:939–954, doi: 10.1007/s10236-016-0960-0

121. Jansen, E., Coppini, G., and **Pinardi, N**. (2016) Drift simulation of MH370 debris using superensemble techniques. Nat. Hazards Earth Syst. Sci., 16, 1623-1628, doi: 10.5194/nhess-16-1623-2016

122. She, J., Allen, I., Buch, E., Crise, A., Johannessen, J. A., Le Traon, P.-Y., Lips, U., Nolan, G., **Pinardi, N.,** Reißmann, J. H., Siddorn, J., Stanev, E., and Wehde, H. (2016) Developing European operational oceanography for Blue Growth, climate change adaptation and mitigation, and ecosystem-based management. Ocean Sci., 12, 953-976, doi: 10.5194/os-12-953-2016

123. G. Mussap, M. Zavatarelli, **N. Pinardi,** M. Celio,2016. A management oriented 1-D ecosystem model: Implementation in the Gulf of Trieste (Adriatic Sea). Reg. Stud. Mar. Sci., 6, 109-123, doi: 10.1016/j.rsma.2016.03.015 - Supplementary material

124. G. Mannarini, **N. Pinardi,** G. Coppini, P. Oddo and A. Iafrati, 2016. VISIR-I: small vessels – least-time nautical routes using wave forecasts. Geosci. Model Dev., 9, 1597-1625, doi: 10.5194/gmd-9-1597-2016.

125. Aydoğdu, A., **N. Pinardi,** Jenny Pistoia, Michela Martinelli, Andrea Belardinelli, Stefania Sparnocchia, Assimilation experiments for the Fishery Observing System in the Adriatic Sea, Journal of Marine Systems, Volume 162, October 2016, Pages 126-136, ISSN 0924-7963, http://dx.doi.org/10.1016/j.jmarsys.2016.03.002

126. **Pinardi, N.,** Lyubartsev, V., Cardellicchio, N., Caporale, C., Ciliberti, S., Coppini, G., De Pascalis, F., Dialti, L., Federico, I., Filippone, M., Grandi, A., Guideri, M., Lecci, R., Lamberti, L., Lorenzetti, G., Lusiani, P., Macripo, C. D., Maicu, F., Mossa, M., Tartarini, D., Trotta, F., Umgiesser, G., and Zaggia, L.: Marine Rapid Environmental Assessment in the Gulf of Taranto: a multiscale approach, Nat. Hazards Earth Syst. Sci., 16, 2623-2639, doi:10.5194/nhess-16-2623-2016, 2016.

127. Fiori, E. Zavatarelli, M., **Pinardi, N.,** Mazziotti, C., Ferrari, C. R., 2016. Observed and simulated trophic index (TRIX) values for the Adriatic Sea Basin. Natural Hazards and Earth System Sciences, 16, pp. 2043 - 2054

128. von Schuckmann, K. .., **N.Pinardi**, ..., 2016. The Copernicus Marine Environment Monitoring Service Ocean State Report. Journal of Operational Oceanography, 9, 235-230, doi: 10.1080/1755876X.2016.1273446

129. Zhaoyi Wang, Andrea Storto, **Nadia Pinardi,** Guimei Liu, and Hui Wang, 2017: Data assimilation of Argo profiles in a northwestern Pacific model. Nat. Hazards Earth Syst. Sci., 17, 17–30, doi: 10.5194/nhess-17-17-2017.

130. Coppini, G., Marra, P., Lecci, R., **Pinardi, N.,** Cretì, S., Scalas, M., Tedesco, L., D'Anca, A., Fazioli, L., Olita, A., Turrisi, G., Palazzo, C., Aloisio, G., Fiore, S., Bonaduce, A., Kumkar, Y. V., Ciliberti, S. A., Federico, I., Mannarini, G., Agostini, P., Bonarelli, R., Martinelli, S., Verri, G., Lusito, L., Rollo, D., Cavallo, A., Tumolo, A., Monacizzo, T., Spagnulo, M., Sorgente, R., Cucco, A., Quattrocchi, G., Tonani, M., Drudi, M., Nassisi, P., Conte, L., Panzera, L., Navarra, A., and Negro, G., 2017. SeaConditions: a web and mobile service for safer professional and recreational activities in the Mediterranean Sea. Nat. Hazards Earth Syst. Sci., 17, 533-547, doi: 10.5194/nhess-17-533-2017.

131. Clementi, E., Oddo, P., Drudi, M., **Pinardi, N**., Korres, G., Grandi, A., 2017. Coupling hydrodynamic and wave models: first step and sensitivity experiments in the Mediterranean Sea, Ocean Dynamics, doi: 10.1007/s10236-017-1087-7

132. G. Verri, **N. Pinardi**, David Gochis, Joseph Tribbia, Antonio Navarra, Giovanni Coppini,and Tomislava Vukicevic, 2017. A meteo-hydrological modelling system for the reconstruction of river runoff: the case of the Ofanto river catchment., Nat. Hazards Earth Syst. Sci. Discuss., doi: 10.5194/nhess-17-1741-2017

133. Verri, G., **Pinardi, N**., Oddo, P., Ciliberti, S. A. Coppini, G., 2018. River runoff influences on the Central Mediterranean overturning circulation. Climate Dynamics, doi: 10.1007/s00382-017-3715-9

134. Nagy, H., Elgindy, A., **Pinardi, N.,** Zavatarelli, M., Oddo, P. (2017). A nested pre-operational model for the Egyptian shelf zone: Model configuration and validation/calibration. DYNAMICS OF ATMOSPHERES AND OCEANS, vol. 80, p. 75-96, ISSN: 0377-0265, doi: 10.1016/j.dynatmoce.2017.10.003

135. Mussap, G., Zavatarelli, M., **N. Pinardi**, 2017. Linking 1D coastal ocean modelling to environmental management: an ensemble approach, Ocean Dynamics, doi: 10.1007/s10236-017-1106-8

136. **Pinardi, N**; Cavaleri, L.; Coppini, G.; De Mey, P.; Fratianni, C.; Huthnance, J.; Lermusiaux, P. F. J.; Navarra, A.; Preller, R.; Tibaldi, S., 2017. From weather to ocean predictions: an historical viewpoint. Journal of Marine Research, 103-159(57), doi: 10.1357/002224017821836789

137. Trotta, F.; **Pinardi, N**.; Fenu, E.; Grandi, A.; Lyubartsev, V., 2017. Multi-nest high-resolution model of submesoscale circulation features in the Gulf of Taranto. Ocean Dynamics, 67: 1609., doi: 10.1007/s10236-017-1110-z.

138. Treguier, Anne Marie; Chassignet, Eric P.; Boyer, Arnaud Le; **Pinardi, N**, 2017. Modeling and forecasting the weather of the ocean at the mesoscale. Journal of Marine Research. Journal of Marine Research, Volume 75, Number 3, pp. 301-329(29), doi: 10.1357/002224017821836842

139. **Pinardi, N**., E. Özsoy, M.A. Latif, F. Moroni, A. Grandi, G. Manzella, F. De Strobel, and V. Lyubartsev, 2018: Measuring the Sea: Marsili's Oceanographic Cruise (1679–80) and the Roots of Oceanography, J. Phys. Oceanogr., 48, 845–860, doi: 10.1175/JPO-D-17-0168.1

140. Cherchi, A., Satyaban Bishoyi Ratna, Simona Masina, Andrea Storto, Chunxue Yang, Claudia Fratianni, Simona Simoncelli, **Nadia Pinardi,** 2017. Evaluation of amip-type atmospheric fields as forcing for Mediterranean Sea and global ocean reanalyses. ANNALS OF GEOPHYSICS, 61, 5, OC559, 2018; DOI:10.4401/ag-7793

141. Karina von Schuckmann, ... **Nadia Pinardi**, ... (2018) Copernicus Marine Service Ocean State Report, Journal of Operational Oceanography, 11:sup1, S1-S142,DOI:10.1080/1755876X.2018.1489208

142. Aydoğdu, A., **Pinardi, N.,** Özsoy, E., Danabasoglu, G., Gürses, Ö., and Karspeck, A.:Circulation of the Turkish Straits System under interannual atmospheric forcing,Ocean Sci., 14, 999-1019, doi: 10.5194/os-14-999-2018, 2018

143. Aydoğdu, A., Hoar, T. J., Vukicevic, T., Anderson, J. L., **Pinardi, N.,** Karspeck, A., Hendricks, J., Collins, N., Macchia, F., and Özsoy, E.: OSSE for a sustainable marine observing network in the Sea of Marmara,Nonlin. Processes Geophys., 25, 537-551, doi: 10.5194/npg-25-537-2018, 2018

144. **Pinardi, N.,** J.Stander et al., 2019. The Joint IOC (of UNESCO) and WMO Collaborative Effort for Met-Ocean Services.Front. Mar. Sci. 6:410. doi: 10.3389/fmars.2019.00410

145. Pearlman, J., … **N.Pinardi**, …et al., 2019. Evolving and Sustaining Ocean best Practices and standards for the next decade. Front. Mar. Sci. | doi: 10.3389/fmars.2019.00277

146. **Pinardi, N.,** P. Cessi, F. Borile, and C.L. Wolfe, 2019: The Mediterranean Sea Overturning Circulation. J. Phys. Oceanogr., 49, 1699–1721, doi: 10.1175/JPO-D-18-0254.1

147. Palazov A, Ciliberti S, Peneva E, Gregoire M, Staneva J, Lemieux-Dudon B, Masina S, **Pinardi N**, Vandenbulcke L, Behrens A, Lima L, Coppini G, Marinova V, Slabakova V, Lecci R, Creti S, Palermo F, Stefanizzi L, Valcheva N and Agostini P (2019) Black Sea Observing System. Front. Mar. Sci. 6:315. doi: 10.3389/fmars.2019.00315

148. Le Traon PY, …, **Pinardi N**, et al., 2019. From Observation to Information and Users: The Copernicus Marine Service Perspective. Front. Mar. Sci. 6:234. doi: 10.3389/fmars.2019.00234

149. Martín Míguez B, …, **Pinardi N**, et al., 2019. The European Marine Observation and Data Network (EMODnet): Visions and Roles of the Gateway to Marine Data in Europe. Front. Mar. Sci. 6:313. doi: 10.3389/fmars.2019.00313

150. Tintore, J., **N.Pinardi** et al., 2019. Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea. Front. Mar. Sci. 6:568. doi: 10.3389/fmars.2019.00568

151. G. Mannarini, D. N. Subramani, P. F. J. Lermusiaux and **N. Pinardi**, "Graph-Search and Differential Equations for Time-Optimal Vessel Route Planning in Dynamic Ocean Waves, 2020. *IEEE Transactions on Intelligent Transportation Systems*, vol. 21, no. 8, pp. 3581-3593, doi: 10.1109/TITS.2019.2935614.

152. Sepp Neves AA, **Pinardi N**, Navarra A and Trotta F, 2020. A General Methodology for Beached Oil Spill Hazard Mapping. Front. Mar. Sci. 7:65. doi: 10.3389/fmars.2020.00065

153. Ruti, P., O. Tarasova, J. Keller, G. Carmichael, Ø. Hov, S. Jones, D. Terblanche, C. Anderson-Lefale, A. Barros, P. Bauer, V. Bouchet, G. Brasseur, G. Brunet, P. DeCola, V. Dike, M.D. Kane, C. Gan, K. Gurney, S. Hamburg, W. Hazeleger, M. Jean, D. Johnston, A. Lewis, P. Li, X. Liang, V. Lucarini, A. Lynch, E. Manaenkova, N. Jae-Cheol, S. Ohtake, **N. Pinardi**, J. Polcher, E. Ritchie, A.E. Sakya, C. Saulo, A. Singhee, A. Sopaheluwakan, A. Steiner, A. Thorpe, and M. Yamaji, 0: Advancing Research for Seamless Earth System Prediction, 2020. Bull. Amer. Meteor. Soc., Bulletin of the American Meteorological Society, 101(1), E23-E35. doi: 10.1175/BAMS-D-17-0302.1

154. Verri, G, **N. Pinardi**, F. Bryan, Y. Tseng, G. Coppini, E. Clementi, 2020. A box model to represent estuarine dynamics in mesoscale resolution ocean models, 148, 101587-10600, 10.1016/j.ocemod.2020.101587.

155. Barker, C. H. and Kourafalou, V. H. and Beegle-Krause, CJ and Boufadel, M. and Bourassa, M. A. and Buschang, S. G. and Androulidakis, Y. and Chassignet, E. P. and Dagestad, K.-F. and Danmeier, D. G. and Dissanayake, A. L. and Galt, J. A. and Jacobs, G. and Marcotte, G. and Özgökmen, T. and **Pinardi, N.** and Schiller, R. V. and Socolofsky, S. A. and Thrift-Viveros, D. and Zelenke, B. and Zhang, A. and Zheng, Y., 2020. Progress in Operational Modeling in Support of Oil Spill Response, Journal of Marine Science and Engineering, 8 (9), 668, doi:10.3390/jmse8090668

156. Karina von Schuckmann ((Editor)), …., **N. Pinardi,** etc., 2020. Copernicus Marine Service Ocean State Report, Issue 4, Journal of Operational Oceanography, 13:sup1, S1-S172, DOI: 10.1080/1755876X.2020.1785097

157. Federico, I., **Pinardi, N.,** Lyubartsev, V.,Maicu, F., Causio, S., Trotta, F., et al., 2020. Observational evidence of the basin-wide gyre reversal in the Gulf of Taranto. Geophysical Research Letters,47, e2020GL091030. https://doi.org/10.1029/2020GL091030

158. Ilicak M., I. Federico, I. Barletta, S. Mutlu, H. Karan, S. Ciliberti, E. Clementi, G. Coppini, **N. Pinardi**, 2021. Modeling of the Turkish Strait System Using a High Resolution Unstructured Grid Ocean Circulation Model, Journal of Marine Science and Engineering 9 (7), 769, doi: 10.3390/jmse9070769

159. Smith, K.M., S. Kern, P. E. Hamlington, M. Zavatarelli, **N. Pinardi**, E. F. Klee, K. E. Niemeyer, 2021. BFM17 v1. 0: a reduced biogeochemical flux model for upper-ocean biophysical simulations, Geoscientific Model Development 14 (5), 2419-2442, doi: 10.5194/gmd-14-2419-2021

160. Maicu, F., J. Alessandri, **N. Pinardi**, G. Verri, G. Umgiesser, S. Lovo, S. Turolla, T. Paccagnella, A. Valentini, 2021. Downscaling With an Unstructured Coastal-Ocean Model to the Goro Lagoon and the Po River Delta Branches, Front. Mar. Sci. 8:647781. doi: 10.3389/fmars.2021.647781

161. Trotta F, Federico I, **Pinardi N**, Coppini G, Causio S, Jansen E, Iovino D and Masina S (2021). A Relocatable Ocean Modeling Platform for Downscaling to Shelf-Coastal Areas to Support Disaster Risk Reduction. Front. Mar. Sci. 8:642815. doi: 10.3389/fmars.2021.642815

162. T. Dauxois, T. Peacock, P. Bauer, C. P. Caulfield, C. Cenedese, C. Gorlé, G. Haller, G. N. Ivey, P. F. Linden, E. Meiburg, **N. Pinardi**, N. M. Vriend, and A. W. Woods. Confronting Grand Challenges in environmental fluid mechanics. in 2021. Phys. Rev. Fluids 6, 020501, doi: 10.1103/PhysRevFluids.6.020501

163. Maicu F, Alessandri J, **Pinardi N**, Verri G, Umgiesser G, Lovo S, Turolla S, Paccagnella T and Valentini A (2021). Downscaling With an Unstructured Coastal-Ocean Model to the Goro Lagoon and the Po River Delta Branches. Front. Mar. Sci. 8:647781. doi: 10.3389/fmars.2021.647781

164. Smith, K. M., Kern, S., Hamlington, P. E., Zavatarelli, M., **Pinardi, N**., Klee, E. F., and Niemeyer, K. E. (2021). BFM17 v1.0: a reduced biogeochemical flux model for upper-ocean biophysical simulations. Geosci. Model Dev., 14, 2419–2442. doi: 10.5194/gmd-14-2419-2021

165. Trotta F, Federico I, **Pinardi N**, Coppini G, Causio S, Jansen E, Iovino D and Masina S (2021). A Relocatable Ocean Modeling Platform for Downscaling to Shelf-Coastal Areas to Support Disaster Risk Reduction. Front. Mar. Sci. 8:642815. doi: 10.3389/fmars.2021.642815

166. Ilicak M., Federico I., Barletta I., Mutlu S., Karan H., Ciliberti S.A., Clementi E., Coppini G., **Pinardi N.** (2021). Modeling of the Turkish Strait System Using a High Resolution Unstructured Grid Ocean Circulation Model. J. Mar. Sci. Eng. 2021,9,769. doi: 10.3390/jmse9070769

167. Gallotti G., Santo M.A., Apostolidou I., Alessandri J., Armigliato A., Basu B., Debele S., Domeneghetti A., Gonzalez-Ollauri A., Kumar P., et al. (2021) On the Management of Nature-Based Solutions in Open-Air Laboratories: New Insights and Future Perspectives. Resources 2021, 10, 36. doi: 10.3390/resources10040036

168. Shahzadi, K., **N. Pinardi**, A. Barth, C. Troupin, V. Lyubartsev and S. Simoncelli, 2021 A New Global Ocean Climatology. Frontiers in Marine Science (31 August 2021). doi: 10.3389/fenvs.2021.711363

169. Escudier R, Clementi E, Cipollone A,Pistoia J, Drudi M, Grandi A, Lyubartsev V, Lecci R, Aydogdu A, Delrosso D, Omar M, Masina S, Coppini G and Pinardi N (2021). High Resolution Reanalysis for the Mediterranean Sea. Front. Earth Sci. 9:702285. doi: 10.3389/feart.2021.702285

170. Ciliberti, S.A.; Grégoire, M.;Staneva, J.; Palazov, A.; Coppini, G.;Lecci, R.; Peneva, E.; Matreata, M.;Marinova, V.; Masina, S.; **N.Pinardi** et al. 2021. Monitoring and Forecasting the Ocean State and Biogeochemical Processes in the Black Sea: Recent Developments in the Copernicus Marine Service. J. Mar. Sci. Eng., 9, 1146. doi: 10.3390/jmse9101146

171. Manzella, G.M.R.,F. De Strobel, **N. Pinardi** and W. Emery, 2022. Chapter One - A narrative of historical, methodological, and technological observations in marine science. Editor(s): Giuseppe Manzella, Antonio Novellino, Ocean Science Data, Elsevier, Pages 3-64, ISBN 9780128234273. doi: 10.1016/B978-0-12-823427-3.00004-9

172. Park, K., I. Federico, E. Di Lorenzo, T. Ezer, K. M. Cobb, **N. Pinardi**, G. Coppini, 2022. The contribution of hurricane remote ocean forcing to storm surge along the Southeastern U.S. coast. Coastal Engineering, Volume 173, 104098. doi: doi.org/10.1016/j.coastaleng.2022.104098

173. Ciliberti, S.A.; Jansen, E.; Coppini, G.; Peneva, E.; Azevedo, D.; Causio, S.; Stefanizzi, L.; Creti', S.; Lecci, R.; Lima, L.; **Pinardi, N**. and A.Palasov, 2022. The Black Sea Physics Analysis and Forecasting System within the Framework of the Copernicus Marine Service. J. Mar. Sci.Eng. 2022, 10,48. doi: 10.3390/jmse10010048

174. Révelard A, Tintoré J, Verron J, Bahurel P, Barth JA, Belbéoch M, Benveniste J, Bonnefond P, Chassignet EP, Cravatte S, Davidson F, deYoung B, Heupel M, Heslop E, Hörstmann C, Karstensen J, Le Traon PY, Marques M, McLean C, Medina R, Paluszkiewicz T, Pascual A, Pearlman J, Petihakis G, **Pinardi N**, Pouliquen S, Rayner R, Shepherd I, Sprintall J, Tanhua T, Testor P, Seppälä J, Siddorn J, Thomsen S, Valdés L, Visbeck M, Waite AM, Werner F, Wilkin J and Williams B, 2022. Ocean Integration: The Needs and Challenges of Effective Coordination Within the Ocean Observing System. Front. Mar. Sci. 8:737671. doi: 10.3389/fmars.2021.737671

175. Pranavam Ayyappan Pillai, U., **Pinardi, N**., Federico, I., Causio, S., Trotta, F., Unguendoli, S., and Valentini, A.: Wind-wave characteristics and extremes along the Emilia-Romagna coast, 2022. Nat. Hazards Earth Syst. Sci., 22, 3413–3433, https://doi.org/10.5194/nhess-22-3413-2022.

176. Umesh Pranavam Ayyappan Pillai, **N. Pinardi**, J. Alessandri, I. Federico, S. Causio, S. Unguendoli, A. Valentini, J. Staneva, 2022. A Digital Twin modelling framework for the assessment of seagrass Nature Based Solutions against storm surges, Science of The Total Environment, Volume 847, 157603, https://doi.org/10.1016/j.scitotenv.2022.157603.

177. Masina, S., **N. Pinardi**, A. Cipollone, D. S. Banerjee, V. Lyubartsev, K. von Schuckmann, L. Jackson, R. Escudier, E. Clementi, A. Aydogdu, D. Iovino, 2022. The Atlantic Meridional Overturning Circulation forcing the mean sea level in the Mediterranean Sea through the Gibraltar transport. Copernicus Ocean State Report, issue 6, Journal of Operational Oceanography, 15:sup1, 1-220, DOI: 10.1080/1755876X.2022.2095169

178. Ilicak,M., S. Causio, S. Ciliberti,G. Coppini, L. Lima, A. Aydogdu, D. Azevedo, R. Lecci, D. U. Cetin, S. Masina, E. Peneva, M. Gunduz, **N. Pinardi**, 2022. Copernicus Ocean State Report, issue 6, Journal of Operational Oceanography, 15:sup1, 1-220, DOI: 10.1080/1755876X.2022.2095169

179. **Pinardi, N.,** C.Estournel, P.Cessi, R.Escoudier and V.Lyubartsev, 2022. Dense and deep water formation processes and Mediterranean overturning circulation. In: Oceanography of the Mediterranean Sea. Edited by: K.Schroeder and J.Chiggiato, Elsevier, ISBN: 9780128236925

180. Cronin, MF, …, Maicu, F, ...**Pinardi, N**, …., 2022. Developing an Observing Air-Sea Interactions Strategy (OASIS) for the global ocean. ICES JOURNAL OF MARINE SCIENCE,57, 1-7. doi: doi.org/10.1093/icesjms/fsac149

181. Verri, G., I. Barletta, **N.Pinardi**, I.Federico, J.Alessandri and G.Coppini, 2023. Shelf slope, estuarine dynamics and river plumes in a z* vertical coordinate, unstructured grid model, Ocean modelling, Vol. 184, https://doi.org/10.1016/j.ocemod.2023.102235

182. Vecchioni, G., Cessi, P., **Pinardi, N.,** Rousselet, L., & Trotta, F. (2023). A Lagrangian estimate of the Mediterranean outflow's origin. Geophysical Research Letters, 50, https://doi.org/10.1029/2023GL103699

183. Coppini, G., Clementi, E., Cossarini, G., Salon, S., Korres, G., Ravdas, M., Lecci, R., Pistoia, J., Goglio, A. C., Drudi, M., Grandi, A., Aydogdu, A., Escudier, R., Cipollone, A., Lyubartsev, V., Mariani, A., Cretì, S., Palermo, F., Scuro, M., Masina, S., **Pinardi, N.,** Navarra, A., Delrosso, D., Teruzzi, A., Di Biagio, V., Bolzon, G., Feudale, L., Coidessa, G., Amadio, C., Brosich, A., Miró, A., Alvarez, E., Lazzari, P., Solidoro, C., Oikonomou, C., and Zacharioudaki, A., 2023. The Mediterranean Forecasting System – Part 1: Evolution and performance. Ocean Sci., 19, 1483–1516. doi: doi.org/10.5194/os-19-1483-2023

184. Alessandri, J., **Pinardi, N.,** Federico, I. and Valentini, A., 2023. Storm Surge Ensemble Prediction System for Lagoons and Transitional Environments. Weather and Forecasting, 38(9), pp.1791-1806. doi: doi.org/10.1175/WAF-D-23-0040.1

185. Kern, S., McGuinn, M. E., Smith, K. M., **Pinardi, N.**, Niemeyer, K. E., Lovenduski, N. S., and Hamlington, P. E., 2024. Computationally efficient parameter estimation for high-dimensional ocean biogeochemical models. Geosci. Model Dev., 17, 621–649. doi: doi.org/10.5194/gmd-17-621-2024

186. Mentaschi L, Lovato T, Butenschon M,Alessandri J, Aragao L, Verri G, Guerra R, Coppini G and **Pinardi N**, 2024. Projected climate oligotrophication of the Adriatic marine ecosystems. Front. Clim. 6:1338374.doi: 10.3389/fclim.2024.1338374

187. Aragão L, Mentaschi L, **Pinardi N**, Verri G, Senatore A and Di Sabatino S (2024) The freshwater discharge into the Adriatic Sea revisited. Front. Clim. 6:1368456. doi: 10.3389/fclim.2024.1368456

188. Verri G, Furnari L, Gunduz M, Senatore A, Santos da Costa V, De Lorenzis A, Fedele G, Manco I, Mentaschi L, Clementi E, Coppini G, Mercogliano P, Mendicino G and **Pinardi N**, 2024. Climate projections of the Adriatic Sea: role of river release. Front. Clim. 6:1368413. doi: 10.3389/fclim.2024.1368413

189. Benincasa, R., Liguori, G., **Pinardi, N.,** and von Storch, H., 2024. Internal and forced ocean variability in the Mediterranean Sea, Ocean Sci., 20, 1003–1012, https://doi.org/10.5194/os-20-1003-2024.

190. **Pinardi, N**., Kumar, T. S., Alvarez-Fanjul, E., Ansong, J. K., Burgos, A., Cabana, D., Canals, P., Coppini, G., Duffy-Mayers, L., Harley, M., Hermes, J., Holt, J., Kizenga, H. J., Kamdoum Ngueuko, J., Karnawati, D., Manneela, S., Monnereau, I., Müller, M., Queval, A., Smith, M. D., & Valentini, A., 2024. Ocean Decade Vision 2030 White Papers – Challenge 6: Increase Community Resilience to Ocean Hazards. Paris, UNESCO-IOC. (The Ocean Decade Series, 51.6.). doi: doi.org/10.25607/smm1-nq79

191. McDonagh, B., Clementi, E., Goglio, A. C., and **Pinardi, N**. , 2024. The characteristics of tides and their effects on the general circulation of the Mediterranean Sea, Ocean Sci., 20, 1051–1066, https://doi.org/10.5194/os-20-1051-2024

192. Verri G, De Lorenzis A, Santos da Costa V, Sorolla A, Löchner A, Ribot M, Marti E, DelGado SC, Coppini G and **Pinardi N.** (2024). Salt-wedge estuary's response to rising sea level, reduced discharge, and Nature-Based Solution. Front. Clim.6:1408038. doi: 10.3389/fclim.2024.1408038

193. Costa VS, Alessandri J, Verri G, Mentachi L, Guerra R and **Pinardi N.** (2024). Marine climate indicators in the Adriatic Sea. Front. Clim. 6:1449633. doi: 10.3389/fclim.2024.1449633

194. Negroni, S. D. J. McGillicuddy, G. G. Gawarkiewicz, P. Oddo, N. Pinardi, 2025. Biochemical implications of the Bottom Boundary Layer Detachment at the Mid-Atlantic Bight shelf-break front. Continental Shelf Research, Volume 286, 105408, ISSN 0278-4343. doi: 10.1016/j.csr.2025.105408

195. Borile F, Pinardi N, Lyubartsev V, Ghani MH, Navarra A, Alessandri J, Clementi E, Coppini G, Mentaschi L, Verri G, da Costa VS, Scoccimarro E, Misurale F, Novellino A and Oddo P (2025). The Eastern Mediterranean Sea mean sea level decadal slowdown: the effects of the water budget. Front. Clim. 7:1472731. doi: 10.3389/fclim.2025.1472731

196. Shenolikar, J., Paolo M. Ruti, Daniel Lee, Sreerekha Thonipparambil, Roope Tervo, Federico Fierli, Estelle Obligis, Alessandra Cacciari, Martin Raspaud,Veronique Bouchet, Xavier Abellan,Tony McNally, Kotaro Bessho,e Sid Boukabara, Luca Brocca, Silvia Puca, **Nadia Pinardi,** Joerg Schulz, Joachim Saalmueller, and Bojan Bojkov (2025). The State of Earth Observing System Today: Updates Compiled from Recent EUMETSAT Meteorological Satellite Conferences. Bull. Amer. Meteor. Soc., 106, E217–E241. doi: 10.1175/BAMS-D-23-0261.1

197. Sunanda Manneela, Srinivasa Kumar Tummala, Nadia Pinardi (2025). UN Decade Challenge 6: navigating the waves of the future—enhancing community resilience to ocean-related hazards. ICES Journal of Marine Science, Volume 82, Issue 3, March 2025, fsaf031. doi: 10.1093/icesjms/fsaf031

198. McDonagh B., von Storch J.S., Clementi E., **Pinardi N.** (2025). Internal tides in the Mediterranean Sea *Progress in Oceanography* DOI: 10.1016/j.pocean.2025.103647

199. Rodrigues Mateus I.P., Bracco A., Liubartseva S., Coppini G., **Pinardi N.,** Oddo P., Seracini M., Atake I. (2026) Mapping oil spill hazards in the coastal Mediterranean *Frontiers in Marine Science* DOI: 10.3389/fmars.2026.1929680

200. Atake I., Benfenati F. M., Ramos J., Mateus I., Trotta F., Coppini G., Liubartseva S., Bravo S., Seracini M., **Pinardi N.** (2026) MEDSLIK-II v3.00: an improved oil spill transport and fate model for surface oil releases. *Frontiers in Marine Science* DOI: 10.3389/fmars.2026.1906867

201. Benassi F., Siedlecki S., **Pinardi N**., Mentaschi L., Cessi P., Bianconcini S., Federico I. (2026) A Satellite-Based Estimate of the Contribution of Filamentary Structures to Lateral Carbon Transport in the Pacific and Atlantic Upwelling Systems *Geophysical Research Letters* DOI: 10.1029/2026GL122097

202. Marcelli M., Scanu S., Piazzolla D., Bonamano S., Madonia A., Fersini G., Piermattei V., Bosch-Belmar M, Mancuso F.P., Ceccherelli G., Falace A., Savini A., Federico I., Coppini G., **Pinardi N.,** Sarà G. (2026) Holistic approach to restore marine ecosystems: RENOVATE project. *Frontiers in Marine Science Marine Conservation and Sustainability* DOI: 10.3389/fmars.2026.1770070

203. Dos Reis Lopes I., Federico I., Vousdoukas M., Perini L., Coppini G., Milella M., **Pinardi N.,** Mentaschi L. (2026) Numerical modelling framework for assessing dune effectiveness against coastal inundation. *Natural Hazards and Earth System Sciences* DOI: 10.5194/nhess-26-811-2026

204. Lecci R., Gwee R., Yan K., Muis S., **Pinardi N.,** She J., Verlaan M., Masina S., Li W., Wang H., Causio S., Novellino A., Alba M., Kras E., Gaytan Aguilar S., Calewaert J.-B. (2026) Assessing sea level rise and extreme events along the China–Europe Sea Route *Natural Hazards and Earth System Sciences*, DOI: 10.5194/nhess-26-1767-2026

205. Asperti A., Aydogdu A., Greco A., Merizzi F., Miraglio P., Tartufoli B., Testa A., **Pinardi N.,** Oddo P. (2026). Deep learning for sea surface temperature reconstruction under cloud occlusion. *Applied Ocean Research* DOI: 10.1016/j.apor.2026.105038

206. Ghani M. H., **Pinardi N.,** Navarra A., Mentaschi L., Bianconcini S., Maicu F., Trotta F. (2026) Revisited heat budget and probability distributions of turbulent heat fluxes in the Mediterranean Sea *Ocean Science*, DOI: 10.5194/os-22-427-2026

207. Oddo P., Adani M., Carere F., Cipollone A., Goglio A. C., Jansen E., Aydogdu A., Mele F., Epicoco I., Pistoia J., Clementi E., **Pinardi N.,** Masina S. (2026). Implementation and evaluation of sea level operators in OceanVar2.0: an open-source oceanographic three-dimensional variational data assimilation system *Geoscientific Model Development* DOI: 10.5194/gmd-19-423-2026