

Nadia Pinardi Curriculum Vitae

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Personal Details

Birth date: February 22, 1956

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Education

1976-1980: Degree in Physics, Bologna University, 110/110 cum laude.

1981-1993: 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.

Italian Professional Experience

Year	Professional experience
1999- present	Associate Professor of Physical Oceanography at University of Bologna, Dept. of Physics and Astronomy, Bologna
2004-present	Director of the National Group of Operational Oceanography, INGV
2001-present	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.

US Professional Experience

Year	Professional experience
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)
2012-2013	Visiting scientist at the Cooperative Institute for Research in Environmental Sciences (CIRES), Colorado University, Boulder, USA (1 month)

Italian and international advisory committees

Year	Professional experience
1986-1998	Member of the scientific council of the local CNR Institute (CNR- National Research Council).
1995	Member of the Italian National IGBP Commission.
1996-1997	Member of the Executive Council of the National Institute of Marine Sciences of CNR (National Research Council).
1997-2001	Member of the GLOBEC Scientific Steering Committee (IGBP).
2003-2006	Member of the Scientific Council of the National University Consortium for Marine Sciences (CONISMA).
2004-2007	President of the National Oceanographic Commission, an advisory body of the Ministry of Foreign Affairs to represent Italy at Unesco-IOC.
1999-2006	Member of the Earth Science Advisory Committee (ESAC) of the European Space Agency.
1995-2005	Chair of the Mediterranean Task team of EuroGOOS
2000-2003	Member of the International Coastal Ocean Observations Panel (COOP) of Unesco-

	IOC.
2005-2008	Member of the Ruder Boskovic Institute (Croatia) Science Advisory Board.
2006-2012	Chair of the Mediterranean Operational Oceanography Network (MOON)
2006-2012	Member of the Institute of Advanced Studies of Bologna University.
2006-2009	Member of the Proudman Oceanographic Laboratory (POL) Science Advisory Board.
2007-2010	Member of the Space Advisory Group, European FP7 Space Programme.
2008-2012	Member of the European Research Council, Committee for Earth Sciences.
2007-2012	Member of the European Environmental Agency Scientific Steering Committee.
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
2012-2017	Co-president of the Joint Committee for Oceanography and Marine Meteorology (Joint WMO and IOC-Unesco Committee)

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: Commendatore della Repubblica italiana - per il suo contributo scientifico in campi strategici per uno sviluppo sostenibile quali l'oceanografia e la climatologia.

Editorial Activities

1999-2006: **Topic Editor** of *Annales Geophysicae*, EGU Journal, Ocean section.

2005-present: **Topic Editor** of Ocean Sciences, EGU Journal

2007-present: **Associate editor** of *Journal of Operational Oceanography*

2011-present: Member of the Editorial Board of **The Sea**, Harvard University Press

2012-present: **Topic Editor** of *Natural Hazards and Earth System Science*, EGU Journal

Teaching and thesis supervision

1999-present: Undergraduate course in ‘Introduction to meteorology and oceanography’.

2000-present: Undergraduate course in ‘Data and methods in oceanography’ (alternate years).

2011-present: Master course in ‘Physical Oceanography’.

2000-present: Graduate course in Advanced Geophysical Fluid Dynamics

2012-2015: Scientific responsible and coordinator for the OTTIMA School (Operational oceanography and information technologies for maritime security). Web site: <http://www.cmcc.it/training-programs/ottima-operational-oceanography-and-information-technologies-for-maritime-security>.

17 Ph.D. students in total from 1999

Name	Year	Ph.D. Thesis title

Antonio Bonaduce	2012	Sea-level climate variability in the Mediterranean Sea
Jenny Pistoia	2012	Development of SuperEnsemble Techniques for the Mediterranean oceanic Forecasting System
Antonio Guarnieri	2011	Climate impact studies of sediment transport on the Adriatic coastal zone
Giovanni Coppini	2011	Development of operational oceanography applications: environmental indicators and decision support systems
Simona Simoncelli	2010	Towards Rapid Environmental Assessment and Coastal Forecasting in the Northern Adriatic Sea
Daniele Pettenuzzo	2010	Sea Surface Temperature variations and air-sea physics parametrizations in the Mediterranean Sea
Lavinia Patara	2010	Bio-physical interactions and feedbacks in a global climate model
Michela De Dominicis	2010	Lagrangian study of hydrocarbons transport and dispersion in marine environment
Letizia Tedesco	2009	Modelling coupled physical-biogeochemical processes in ice-covered oceans
Nicoletta Fabbroni	2009	Numerical simulations of passive tracers dispersion in the sea
Mario Adani	2008	Reanalysis Techniques for the numerical modelling of the Mediterranean Sea Circulation
Alessandro Bonazzi	2008	Ensemble Forecasting in the Mediterranean Sea
Paolo Oddo	2005	Numerical predictions of the Adriatic Sea circulations and its coastal areas regimes
Luca Polimene	2005	Adriatic Sea dissolved organic carbon dynamics: comparison between observations and numerical simulations
Marina Tonani	2003	Predictability studies of the Mediterranean Sea circulation
Anne Molcard	2000	Wind driven ocean circulation with an advanced finite element model
Gerasimos Korres	1998	Climate variability of the Mediterranean Sea circulation

In addition, Pinardi advised 36 Master students, see <http://www.sincem.unibo.it/teaching/underg-doct-thesis>

Funding History

(specific funding is indicated only for projects starting from 2005)

1. 1992-1993: **Co-principal Investigator** (Dr. W.R. Holland, NCAR, Boulder, Colorado) in the Mecca Project: Atlantic-Mediterranean coupled modelling.
2. 1990 -1993: **Scientific coordinator and principal investigator** of the European project "Mediterranean Eddy Resolving Modelling And Interdisciplinary Studies". The project developed for the first time several large scale Mediterranean Sea ocean general circulation models for the study of deep water processes.
3. 1991 -1993: **Principal Investigator** of the European Training Boursary (Mobility and Training of Researcher Program) titled " Empirical orthogonal function analysis of model simulations and observations in the Mediterranean sea". One Ph.D. student, Gerasimos Korres from University of Athens (GR).
4. 1994 – 1996: **Principal Investigator** of the European Training Boursary (Mobility and Training of Researcher Program) titled" A spectral finite-element model for the Mediterranean Sea general circulation" . One Ph.D. Student, Anne Molcard from University of Touloun (FR)
5. 1994–1996: **Principal investigator** of the European Training Boursary (Mobility and Training of Researcher Program) titled " Shelf-open sea exchanges in the Adriatic sea: a physical and tracer modelling approach". One post-doctoral fellow, Dr. Vassiliki Kourafalou.
6. 1993 - 1996: **Scientific coordinator and co-principal investigator** of the European project "Mediterranean Eddy Resolving Modelling And InterDisciplinary Studies-II", project with 14 European partners. The project developed general circulation, mesoscale resolving and ecosystem models for the Mediterranean Sea and studied the lower trophic dynamics at the basin scale.
7. 1995 -1997: **Co-principal investigator** of the project "Mediterranean Models Evaluation Experiment (MEDMEX)" intercomparing numerical models in the Mediterranean Sea.
8. 1996 -1998: **Principal Investigator** of the European Training Boursary (Mobility and Training of Researcher Program) titled "Long term interannual variability in the Mediterranean deep thermocline". One post-doctoral fellow, Dr. Jean-Michel Brankart from Liege University (BE).
9. 1996 - 1999: **Co-principal investigator** of the EU project "Mass Transfer and Ecosystem Response- Mediterranean Targeted Project-II" to develop long term climate simulations of the Mediterranean Sea at eddy resolving scales and data assimilation methods.
10. 1998 - 2001: **Co-principal investigator** of the EU project "Mediterranean Data Archaeology and Rescue of Temperature, Salinity, and Bio-chemical Parameters (MEDAR-MEDATLAS II)"
11. 1998 -2001: **Scientific coordinator and co-principal investigator** of the EU Project "Mediterranean Forecasting System Pilot Project (MFSPP)" to develop the observational and modelling components of the future forecasting system of the Mediterranean Sea.
12. 1998 - 2001: **Co-principal investigator** of the EU project "Mediterranean model Networking and archiving program (MedNet)" for the development of a model intercomparison network.
13. 1999 – 2004: **Scientific coordinator and co-principal investigator** of the italian national project "SINAPSI- Seasonal, Interannual and decadal variability of atmosphere, oceans and related marine ecosystems" aimed at the consolidation of interdisciplinary research in the field of climate variability, paleoceanography and climate change.
14. 2001- 2005: **Scientific coordinator and co-principal investigator** of the "ADRICOSM Pilot Project- Adriatic Sea integrated coastal areas and river basin management system Pilot Project" financed by the Ministry of Environment, 21 partners and 4 nations.
15. 2003- 2004: **Co-principal investigator** of the EU Space program project "Monitoring of Environment and security for the European area: Strand1". The project developed the first pan-european network of forecasting centers and satellite data real time analysis centers.

16. 2003- 2006: **Scientific coordinator and co-principal investigator** of the EU project “Mediterranean Forecasting System Toward Environmental Prediction-MFSTEP”, 48 European partners, 6,000,000 Euro for three year project, Pinardi’s budget 500,000 for three years.
17. 2004- 2008: **Co-principal investigator** of the Space Program project “Marine Environment and Security for the European Area” aimed at the development of operational forecasting capabilities in the European Seas and the global ocean, Pinardi’s budget 400,000 Euro for three years.
18. 2004- 2005: **Co-principal investigator** of the ESA project “Definition of scenarios and roadmap for an operational oceanography mission”.
19. 2005-2006: **Scientific coordinator and co-principal Investigator** of Neres project (Neretva River Delta Environmental Requalification and Sustainable Development) financed by the Italian Ministry of Environment developing the Neretva monitoring system for salt intrusion control and management. Total budget 100000 Euro for 1,5 years.
20. 2007-2010: **Co-Principal investigator** of the Italian Space Agency project ‘Progetto Pilota Inquinamento marino da idrocarburi (PRIMI)’ for the development of oil spill monitoring from satellites and forecasting. Total budget for Pinardi was 500,000 Euro for the three years.
21. 2007-2014 **Co-principal investigator** of the EEA European Topic Centre for Water (ETC-WATER), developing interfaces with the European Marine Service products for quality of marine environmental assessments. Pinardi’s budget of 200,000 Euro for each three years.
22. 2004-2007: **Co-principal investigator** of Office of Naval Research project Bayesian Hierarchical Models to Augment the Mediterranean Ocean Forecast System.
23. 2007-2009: **Co-principal investigator** of Office of Naval Research project ‘Bayesian Hierarchical Models to Augment the Mediterranean Forecast System: Extending Ensemble Ocean Forecast Skill’.
24. 2008-2010: **Co-principal investigator** of Office of Naval Research project ‘Bayesian Hierarchical Models to Augment the Mediterranean Forecast System: Consolidating Results and Quantifying Impacts’.
25. 2007- 2010: **Scientific co-ordinator and co-principal Investigator** of ADRICOSM-STAR (ADRIatic sea integrated COastal areaS and river basin Management system - Montenegro coastAl ARea and Bojana river catchment) funded by the Italian Ministry of Environment, Land and Sea. The Project involved 19 laboratories from four countries (Italy, Serbia, Montenegro and Albania) for a total budget of 3,000,000 Euro. Pinardi’s budget was 450,000 Euro for three years.
26. 2010- 2011: **Scientific coordinator and co-principal Investigator** of the World Bank Project ‘Lake Skadar-Shkoder Integrated Ecosystem Management Project’ managed at CMCC and funded through the Montenegrin Ministry of Sustainable Development and Tourism. The project developed a coupled meteorological-hydrological- and oceanographic modelling system to study impacts of urban development and energy production scenarios. Total budget of 200,000 Euro for 9 months duration of the project.
27. 2008-2012: **Co-principal Investigator and Member of the Steering Board** of the European Project MyOcean for the implementation of the Copernicus/GMES Marine Service under the EU Space program. Pinardi’s budget was 1,000,000. Euro for three years
28. 2012- 2014: **Co-principal Investigator and Member of the Steering Board** of the European Project MyOcean2 for the implementation of the Copernicus/GMES Marine Service under the EU Space program. Pinardi’s budget was 800,000. Euro for 2,5 years.
29. 2012–2014, **Scientific coordinator and co-principal investigator** of the national project ‘Advanced Technologies for the Situational Sea Awareness’ aimed at the upgrading of coastal forecasting services for the Italian Seas and the development of applications for the exploitation and protection of marine resources. Total budget for Pinardi is 5,000,000 Euro for three years.
30. 2011-2013, **Scientific coordinator and co-principal Investigator** of the project ADRICOSM-Intermediate funded by The Ministry of Sustainable Development and Tourism of Montenegro for the development of an Integrated Coastal Monitoring Program for the Montenegro coasts. Total budget for Pinardi is 180,000 for two years.

31. 2013-2016, **Scientific coordinator and co-principal investigator** DGMARE-EMODNET Project 'Mediterranean Sea Basin Checkpoint' for the end-to-end assessment of the Mediterranean Sea-wide observing and modelling systems. Total budget of the project 1,100,000 Euro, 9 international partners and 250,000 Euro for Pinardi for the three years.
32. 2013-2016, **Co-principal Investigator** of the FP7 EU project MELODIES that aims at developing tools for the exploitation of open access data in the marine field. Total budget of Pinardi is 150,000 Euro for the three years.
- 33.
- 34.

Publications

Web of Science

H-index=27

Sum of total cites: 2764

Google Scholar

Citations:4372

H-index=34

i10-index=71

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 Prodeltà 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 processes 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. 687-700.
- 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. Boukourt, 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. Baharel**, 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) **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.

- 76) **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.
- 77) **Pinardi, N. and G. Coppini**, 2010. Operational oceanography in the Mediterranean Sea: the second stage of development. *Ocean Sciences*, 6, 263–267.
- 78) **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.
- 79) **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.
- 80) **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
- 81) **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
- 82) **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.
- 83) **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
- 84) **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
- 85) **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.
- 86) **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
- 87) **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.

- 88) **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
- 89) **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
- 90) **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
- 91) **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.
- 92) **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.
- 93) **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
- 94) **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
- 95) **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>.
- 96) **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.
- 97) **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>
- 98) **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>
- 99) **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>

- 100) **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. Pollut. Bull.*, <http://dx.doi.org/10.1016/j.marpolbul.2014.10.039>
- 101) **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>.
- 102) **P. Oddo, 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
- 103) **Pinardi, N., M. Zavatarelli, M. Adani, G. Coppini, C. Fratianni, P. Oddo, S. Simoncelli, M. Tonani, V. Lyubartsev, S. Dobricic,** 2013. The Mediterranean Sea large scale low frequency ocean variability from 1987 to 2007: a retrospective analysis, *Progress in Oceanography*

Books and book chapters and other written works

- 1) N.Pinardi e M.Spall, 1985. Prototype data assimilation in the Gulf Stream regions. Proceedings of "Gulf Stream Workshop", April 23-26, 1985, U.R.I., U.S.A
- 2) **N.Pinardi, 1985. Quasigeostrophic energetics and oceanic mesoscale dynamics. Reports in Meteorology and Oceanography, Nb. 20, Division of Applied Sciences, Harvard University (Ph.D. Thesis).**
- 3) F.Parmiggiani, N.Pinardi and G.Vivanti, 1986. Observations of eddy variability during POEM-0-85: I) Satellite Sea Surface Temperature Analysis. Proceedings of the First POEM Scientific Workshop, Erdemli, Turkey. POEM Scientific Reports No. 1, A.R.Robinson Ed., Cambridge, MA.
- 4) N.Pinardi, A.Hecht and A.R.Robinson, 1986. Process studies in the Eastern Levantine basin. Proceedings of the First POEM Scientific Workshop, Erdemli, Turkey. POEM Scientific Reports No. 1, A.R.Robinson Ed., Cambridge, MA.
- 5) N.Pinardi, 1988, Editor. Report of the POEM Mapping Group Meeting: POEM-V-87 General Circulation Survey data set preparation. IMGGA-CNR Technical Report 1-88.
- 6) N.Pinardi and A.Navarra 1989. A brief review of global Mediterranean wind-driven general circulation experiments. Proceedings of the Second POEM Scientific Workshop, Trieste, Italy. POEM Scientific Reports No. 3, A.R.Robinson Ed., Cambridge, MA.
- 7) S.Castellari, N.Pinardi and A.Navarra, 1990. A realistic general circulation model of the Mediterranean Sea. Part I: surface energy parameterizations and meteorological forcing data sets. IMGGA-CNR Techn. Rep. 4-90.
- 8) G.Korres, N.Pinardi and A.Navarra, 1991. The EOF modes of the Mediterranean Sea. Part I: Statistical modes of the seasonal cycle. IMGGA Tech. Rep. 2-91.
- 9) A.R.Robinson, Y.Feliks, N.Pinardi, 1992. Process studies and dynamical forecast experiments for the Eastern Mediterranean. Proceedings of the Workshop held in La Spezia, Italy, September 1983, H.Charnock ed., Reports in Meteorology and Oceanography, No. 41, Harvard University.
- 10) S.Castellari and N.Pinardi, 1992. A Realistic general circulation model of the Mediterranean Sea. Part II: Final analysis of surface meteorological data. IMGGA-CNR Tech. Rep., 1-92.
- 11) S.Castellari and N.Pinardi, 1992. A Realistic general circulation model of the Mediterranean Sea. Part III: final analysis of surface meteorological data. IMGGA-CNR Tech. Rep., 2-92.
- 12) N.Pinardi, 1993. Mediterranean Eddy Resolving Modelling And InterDisciplinary Studies-I, Project Reports of Mast Days and Euromar Market, Vol 1, pp 5-19.
- 13) **R. Robinson, C.J. Garrett, P. Malanotte-Rizzoli, S. Manabe, S.G. Philander, N. Pinardi, W. Roether, F.A. Schott and J. Shukla, 1993. "Mediterranean and Global Ocean and Climate Dynamics", EOS, Transactions, AGU, Vol. 74, No. 44, pp 506-507.**

- 14) N.Pinardi, K.Miyakoda, A.Rosati and R.Gudgel, 1994. A global ocean assimilation system for hydrographic and satellite altimeter data. Conference proceedings of Oceanology International '94, "The Global Ocean", vol. 1, Brighton, March 8-11, 1994, UK.
- 15) N. Pinardi, G. Korres and S. Castellari, 1994. The interannual variability of the Mediterranean Sea General Circulation. Proceedings of the First Workshop of the Mediterranean Targeted Project, Barcelona, Spain, November 21-23, 1994.
- 16) N.Pinardi and M.G.Angelucci, 1994. Mermaids-II project: a high resolution GCM of the Mediterranean circulation. Mediterranean Targeted Project News, No. 2, pp 8.
- 17) Angelucci M.G., Pinardi N., 1995. A high resolution GCM for the Mediterranean Sea. Science and Supercomputing at CINECA, Report 1995, 353-357.
- 18) N. Pinardi, 1995. Ocean Processes in Climate Dynamics: Global and Mediterranean Examples. Book review. Bulletin of the American Meteorological Society, Vol. 76, No. 7, pp. 1230-1231.
- 19) N.Pinardi, G.Korres, S.Castellari and M.G. Angelucci, 1995. Seasonal and Interannual Variability of the Mediterranean General Circulation. A numerical study. Abstracts of IAPSO (International Association for the Physical Sciences of the Oceans), XXI General Assembly, Honolulu, Hawaii.
- 20) Pinardi, N., G.Korres and S.Castellari, 1995. Seasonal and interannual variability of the general circulation of the Mediterranean Sea. Abstract Book della Conferenza "Impact of the African Dust across the Mediterranean", Oristano, Italia, October 4-7, 1995.
- 21) N.Pinardi, 1995. Mediterranean Eddy Resolving And InterDisciplinary Studies- II, Project Reports of the Second Mast Days and Euromar Market, 7-10 November, Sorrento, Italy, Vol. 1 pp 433-452.
- 22) M.Zavatarelli, N.Pinardi, J.Baretta and J.G.Baretta-Bekker, 1995. Modelling the Adriatic sea ecosystem dynamics. A 3-D modelling effort of the Mermaids-II project. Mediterranean Targeted Project News, Nb.3., pp 15-17.
- 23) M.Hecht, W.Holland, V.Artale, N.Pinardi, 1996. North Atlantic Model Sensitivity to Mediterranean waters. Assessing Climate Change: Results from the Model Evaluation Consortium for Climate assessment, Wendy Howe and Ann Henderson-Sellers Editors, Gordon & Breach Science Publishers, Sydney.
- 24) N. Pinardi, G. Korres, 1996. Long range predictions in the Mediterranean Sea. Proceedings della Conferenza ESF "Big challenges in ocean and polar sciences", Bremen, September 1994.
- 25) Pinardi, N. Oceanografia Fisica del Mare Mediterraneo. Nuova Secondaria, June 15, 1996, 39-44.
- 26) Pinardi, N. Mediterranean Eddy Resolving And Interdisciplinary Studies : an overview. Extended Abstracts Sec. Workshop of the Mediterranean Targeted Project,172-173.
- 27) Pinardi, N., J.Baretta, P.De Mey, K.Haines, S.Bassini, A.Lascaratos, W.Roether, P.Brasseur, Y.Krestenitis, S.Crise, S.Pierini, I.Allen, R.Williams,J.Vested, P.Y.Le Traon (1996). Mediterranean Eddy Resolving And Interdisciplinary Studies-II, Final Scientific and management Report, IMGA Research Activity Note 1/1996, December 1996.
- 28) Zavatarelli M., Pinardi N., 1996. The wind driven circulation of the AdriaticSea: Preliminary results. Proc.12th Conf. Assoc. Ital. Limnol Oceanol.,144
- 29) Pinardi N., Zavatarelli M. 1996. GLOBEC (Global Ocean Ecosystem Dynamics).Proc. Workshop "Partecipazione Italiana all'International Geosphere Biosphere Project" (R.Frassetto Ed.), Roma, March 26-27 1996, 332-333.
- 30) Baretta J.W., Baretta Bekker J.G., Allen I., Radford P.J., Crise A., Crispi G., Zavatarelli M., PINARDI N., 1996. Marine Ecosystem modelling in MERMAIDS-II/MTP: Coupling Physics with biology. Proc. 2nd Mediterranean Targeted Project workshop (Crete, February 1996), 173-178.
- 31) Zavatarelli M. Baretta J.W., Baretta Bekker J.G. Pinardi N., 1996. Simulating the Adriatic Sea ecosystem dynamics. Proc 28th international Liège colloquium on Ocean Hydrodynamics (Liège, May 6-10, 1996), 46.
- 32) Pinardi N., Korres G., Castellari S., Angelucci M.G., 1996. Seasonal and interannual variability of the Mediterranean Sea general circulation. Proc.12th Conf. Assoc. Ital. Limnol Oceanol. 45.

- 33) Molcard A., Pinardi N., Ansaloni R., Iskandarani M., 1995. Preliminary porting on the Cray T3D of a spectral element method: the Mediterranean Sea general circulation case. Science and supercomputing at CINECA, Report 1995, 335-341.
- 34) N. Pinardi, 1996. The problem of large scale ocean predictions in the Mediterranean Sea. ESF Conference Proceedings "Mediterranean Forecasting", La Londe Le Maures, 21-26 October 1995, pag 43.
- 35) N. Pinardi, M. Zavatarelli, 1997. "Advanced high resolution ecological modelling on the Cray C90." *Annales Geophysicae*, 15 (Suppl. II), n. , pp. C396-C396.
- 36) M. Zavatarelli, N. Pinardi, 1997. "Heat and water budgets in the Adriatic Sea: Seasonal and Interannual variability" *Annales Geophysicae*, 15 (Suppl. II), n. , pp. C408-C408
- 37) M. Zavatarelli, N. Pinardi, 1997. "On the mechanism of density compensation in the Adriatic Sea Western Coastal current". *Annales Geophysicae*, 15 (Suppl. II), n. , pp. C385-C385.
- 38) N. Pinardi, P. De Mey, G.L. Manzella, A. Ruiz de Elvira and the EuroGOOS Mediterranean Test Case Scientific Steering Group, 1997. The EuroGOOS Mediterranean Test Case: science and implementation plan. In: *Operational Oceanography. The challenge for European Co-operation*, Proceedings of the First International Conference on EuroGOOS 7-11 October 1996, J.H. Stel, H.W.A. Beherens, J.C. Borst, L.J. Droppert and J. v.d. Meulen, Elsevier Science B.V., vol. 62, 549-557.
- 39) N. Pinardi, S. Masina, A. Navarra, K. Miyakoda, E. Masetti, 1997. Global ocean data assimilation of temperature data: preliminary results. In: *Operational Oceanography. The challenge for European Co-operation*, Proceedings of the First International Conference on EuroGOOS 7-11 October 1996, edited by J.H. Stel, H.W.A. Beherens, J.C. Borst, L.J. Droppert and J. v.d. Meulen, Elsevier Science B.V., vol. 62, 395-400.
- 40) A. Perilli, N. Pinardi, A. Ribotti, R. Sorgente, L. Calise, M. Sprovieri, 1997 Seasonal variability of the Levantine intermediate waters in the Western Mediterranean - Algerian/Provençal basin. In: *Operational Oceanography. The challenge for European Co-operation*, Proceedings of the First International Conference on EuroGOOS 7-11 October 1996, edited by J.H. Stel, H.W.A. Beherens, J.C. Borst, L.J. Droppert and J. v.d. Meulen, Elsevier Science B.V., vol. 62, 576-583.
- 41) M. Zavatarelli, N. Pinardi, 1998. "Modelling the interannual variability of the Adriatic Sea general circulation" *Annales Geophysicae*, 16 (Suppl. II), n. , pp. C597-C597.
- 42) M. Zavatarelli, N. Pinardi, 1998. "Simulation of the seasonal cycle of the Adriatic Sea exosystem with an high resolution coupled ecosystem model". *Annales Geophysicae*, 16 (Suppl. II), n. , pp. C735-C735.
- 43) N. Pinardi, M. Zavatarelli, 1998. "A one-dimensional model study of the biogeochemical seasonal cycles in the Po prodelta area". *Annales Geophysicae*, 16 (Suppl. IV), n. , pp. C1115-C1115.
- 44) **Pinardi, N. and N. Flemming, 1998. " The Mediterranean Forecasting System Science Plan" EuroGOOS Publication No. 11, Southampton Oceanography Center, Southampton, ISBN 0-904175-35-9.**
- 45) M. Zavatarelli, N. Pinardi, 1999. "A numerical study of the interannual variability of the Adriatic Sea." *Geophysical Research Abstracts*, 1, pp. 392-392.
- 46) M. Zavatarelli, N. Pinardi, 1999. "Mesoscale Dynamics in the Middle Adriatic depressions (Spring 1993)". *Geophysical Research Abstracts*, 1, pp. 391-391.
- 47) Pinardi N. and MFSP Partners, 1999. "The . Mediterranean Ocean Forecasting System: the first phase of implementation.". Proceedings of OCEANOBS 99, 18-22 October 1999, Saint-Raphael, France.
- 48) Masina S., N. Pinardi, 1999. "The global upper ocean in the period 1981-1996: the view from a global assimilation System". Proceedings of the Conference Internationale sur Le System d'Observation de l'Océan pour le Climat. OCEANOBS 99, 18-22 October 1999, Saint-Raphael, France.
- 49) Pinardi N., E. Demirov, M. Tonani, 2001. Mediterranean Forecasting System Pilot Project: the initial forecasting phase. EuroGOOS Conference on Operational Ocean Observations from Space.

EuroGOOS Publication No. 16, Southampton Oceanography Centre, Southampton. ISBN 0-904175-44-8

- 50) **N. Pinardi and J.D. Woods, 2002. Ocean Forecasting: conceptual basis and applications, Springer-Verlag, pp.472.**
- 51) PINARDI, N., F. Auclair, C. Cesarini, E. Demirov, S. Fonda-Umani, M. Giani, G. Montanari, P. Oddo, M. Tonani, M. Zavatarelli, 2002. Toward marine environmental predictions in the Mediterranean Sea coastal areas: a monitoring approach. In: Ocean Forecasting (N. Pinardi and J. Woods Eds.) Springer & Verlag.
- 52) Pinardi N, Demirov E, Tonani M, Giacomelli L, Fratianni C. Mediterranean ocean forecasting system: First phase of implementation. OPERATIONAL OCEANOGRAPHY-IMPLEMENTATION AT THE EUROPEAN AND REGIONAL SCALES. Editors: Flemming NC. ELSEVIER OCEANOGRAPHY SERIES, 66, 189-197, 2002
- 53) Zodiatis G, Lardner R, Georgiou G, Demirov E, PINARDI N. Cyprus coastal ocean forecasting and observing system. BUILDING THE EUROPEAN CAPACITY IN OPERATIONAL OCEANOGRAPHY, PROCEEDINGS Editors: Dahlin H, Flemming NC, Petersson SE, Nittis K., ELSEVIER OCEANOGRAPHY SERIES, 69, 36-45, 2003
- 54) Grezio A, Pinardi N, Sparnocchia S, Zavatarelli M. The study of seasonal variability in the Adriatic Sea with the use of EOF analysis. BUILDING THE EUROPEAN CAPACITY IN OPERATIONAL OCEANOGRAPHY, PROCEEDINGS. Editors: Dahlin H, Flemming NC, Petersson SE, Nittis K. ELSEVIER OCEANOGRAPHY SERIES, 69, 222-225, 2003
- 55) Johannessen JA, Le Traon PY, Robinson I, Nittis K, Bell M, Pinardi N, Baharel P, Furevik B. Marine Environment and security for the European area, MERSEA Strand-1. BUILDING THE EUROPEAN CAPACITY IN OPERATIONAL OCEANOGRAPHY, PROCEEDINGS. Editors: Dahlin H, Flemming NC, Petersson SE, Nittis K. ELSEVIER OCEANOGRAPHY SERIES, 69, 279-284, 2003
- 56) Zodiatis G., Lardner R., Georgiou G., Kallos G., Pinardi N., 2005 (b): "Operational oil spill modeling predictions in the Mediterranean.. Proceedings of the 4th EuroGOOS Conference: European Operational Oceanography Present and Future, ELSEVIER OCEANOGRAPHY SERIES, pp 131-132, Brest, 6-9 June, 2005.
- 57) **Pinardi, N., G. Coppini, A. Grezio and P. Oddo, 2005. "Ocean Climate variability in the Mediterranean Sea: climate events and marine forecasting activities", Flooding and Environmental Challenges for Venice and its Lagoon: State of Knowledge. Cambridge University Press.**
- 58) G. Montanari and N. Pinardi, 2006. The current of Emilia Romagna coastal strip during the period 1995-2002. I quaderni di ARPA.
- 59) **Vichi, M; Pinardi, N. Masina, S. and A. Navarra, 2006. Supplemental material to "A generalized model of pelagic biogeochemistry for the global ocean ecosystem", Journal of Marine Systems, 64, pp 89-109**
- 60) **N. Pinardi, E. Arneri, A. Crise, M. Ravaioli and M. Zavatarelli, 2006. "The physical, sedimentary and ecological structure and variability of shelf areas in the Mediterranean Sea". The Sea, Vol. 14 (A. R. Robinson and K. Brink Eds.), Harvard University Press, Cambridge, USA, 1243-1330**
- 61) **Pinardi, N. C. Fratianni and M. Adani, 2008. "Usage of real time observations in an operational ocean data assimilation system: the Mediterranean case", UNESCO Volume: "Real-Time coastal observing systems for ecosystem dynamics and harmful algal blooms: theory, instrumentation and modelling", M.Babin, C.S. Roesler and J.J.Cullen, Unesco Publ., pp 733-763.**
- 62) **N. Pinardi, 2008. The Mediterranean Operational Oceanography Network, The Journal of Ocean Technology, Vol. III, Nb. III**
- 63) **N. Pinardi, 2008. The Mediterranean Component of the GMES Marine Core Service. Windows on GMES, Issue No.2**

- 64) Bahurel P., F.Adragna, M.Bell, F.Jacq, J.A.Johannessen, P.Y. Le Traon, N.Pinardi and J.She, 2009: MyOcean, a European example of post-GODAE initiative/, GODAE Final Symposium Proceedings, pp 467-478
- 65) **N.Pinardi, 2009. Misurare il mare, Luigi Ferdinando Marsili nel Bosforo e nell'Egeo, 1679-1680. Bononia University Press**
- 66) Coppini, G., N. Pinardi, V. Lyubartsev, F. Soulat, G. Larnicol, S. Guinehut, I. Pujol, J. Johannessen, C. Fratianni, M. Tonani, S. Marullo, P. Loewe, R. Santoleri, S. Colella and G. Volpe, 2010. Operational Oceanography and European Environment Agency indicators,. In 'Coastal to global operational oceanography: achievements and challenges, Fifth International Conference on EuroGOOS, 20-22 May 2008, Exeter, UK, Edited by H.Dahlin, M.J.Bell, N.C.Flemming, S.E. Petersson, EuroGOOS Publication 28.
- 67) Tonani M., N.Pinardi, M.Adani, A. Bonazzi, G.Coppini, M.De Dominicis, S.Dobricic, M.Drudi, N.Fabbroni, C.Fratianni, A.Grandi, S.Lyubartsev, P.Oddo, D.Pettenuzzo, J.Pistoia and I.Pujol, 2010. The Mediterranean ocean Forecasting System. In 'Coastal to global operational oceanography: achievements and challenges, Fifth International Conference on EuroGOOS, 20-22 May 2008, Exeter, UK, Edited by H.Dahlin, M.J.Bell, N.C.Flemming, S.E. Petersson, EuroGOOS Publication 28.
- 68) Nirchio, Francesco; Pandiscia, Gianfranco; Ruggieri, Giovanni; Santoleri, Rosalia; Tataranni, Francesco; Giancaspro, A; Trivero, Paolo; Pinardi, Nadia; Masini, Andrea; Castellani, Chiara; COSMO-SkyMed contribution in oil spill monitoring of the Mediterranean Sea, Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, Vol. 2, II-781-II-784, 4799-4802.
- 69) M. De Dominicis, N. Pinardi, N. Fabbroni, G. Coppini, G. Zodiatis and R. Lardner, 2010. Oil spill forecasting in the Mediterranean Sea. In 'Coastal to global operational oceanography: achievements and challenges, Fifth International Conference on EuroGOOS, 20-22 May 2008, Exeter, UK, Edited by H.Dahlin, M.J.Bell, N.C.Flemming, S.E. Petersson, EuroGOOS Publication 28
- 70) Ulbrich, U, ... N.Pinardi, ..., 2013. Past and current climate changes in the Mediterranean region. In: regional Assessment of climate change in the Mediterranean, A.Navarra and L.Tubiana Eds, Springer, Advances in Global change research, Vol. 53.