

## **Nadia Pinardi**

Associate Professor

Department of Physics and Astronomy

Academic discipline: GEO/12 Oceanography and Physics of the Atmosphere

Coordinator of PhD Programme of Geophysics



### Personal Details

Date of birth: 22 February 1956, Bologna

Nationality: Italian

### Short Bio

Nadia Pinardi holds a Ph.D. in Applied Physics from Harvard University, and she is associate tenure professor of Oceanography at Bologna University, Italy.

Her interests range from ocean numerical modelling and predictions to data assimilation, numerical modelling of the marine physical-biological interactions and pollutants at sea. She has written more than hundred papers in peer reviewed journals on a wide range of subjects. The last topic of her research is the understanding of uncertainties in ensemble forecasting and oil spill numerical modelling coupled to operational oceanographic forecasts.

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Via A.Moro 44

40127 Bologna

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### Education

1976-1980: Laurea 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 Experiences

1999-now Associate Professor of Physical Oceanography at University of Bologna, Dept. of Environmental Sciences.

2001-now Associate researcher at Istituto Nazionale di Geofisica e Vulcanologia (INGV)

2000-2003 Associate researcher at Istituto Geologia Marina-CNR, Bologna

1994-1999 Lecturer of Geophysical Fluid Dynamics at the University of Bologna, Italy

1987-1999 Research scientist at IMGA-CNR, Bologna, Italy

### US Professional Experiences

2012-2014: Visiting scientist at the University of Colorado, CIRES, Boulder, Colorado

2002-2012: Visiting scientist at the North West Research Associates, Colorado Research Associates (CoRA), Boulder, Colorado

1992, 1993, 1994, 1997, 1998, 1999, 2001 Visiting scientist at the National Center for Atmospheric Research (NCAR), Boulder, Colorado

1992-1994 Visiting scientist at the Geophysical Fluid Dynamics Laboratory, Princeton University, Princeton, New Jersey, USA (part-time, 6 months in a year).

1986-1988 Post-Doctoral Fellow in Physical Oceanography, Harvard Univ., Cambridge, U.S.A. (6 months in a year)

### National, international and advisory committees

2012-2017 Co-president of the Joint Committee for Oceanography and Marine Meteorology (Joint WMO and IOC-Unesco Committee)

2008-2012 Member of the European Research Council, Committee for Earth Sciences

2006-2009 Member of the Space Advisory Group, European FP7 Space Programme

2004-2010 Director of the “National Group for Operational Oceanography”, INGV.

2007-2009 Member of the European Environmental Agency Scientific Steering Committee

2006-2009 Member of the Institute of Advanced Studies of Bologna University

2000-2007 Chair of EGU session: Mediterranean Sea: a laboratory for interdisciplinary studies and climate research

2006-2009 Member of the FP7 Space Advisory Group of the European Commission for the 7th Framework Programme

2006-2009 Member of the Proudman Oceanographic Laboratory (POL) Science Advisory Board.

2005-2008 Chairperson of the Mediterranean Operational Oceanography Network Member Assembly

2005-2008 Member of the Ruder Boskovic Institute (Croatia) Science Advisory Board

2004-2007 Italian Representative at the thirty-seventh Session of the IOC Executive Council

2000-2005 Member of the Coastal Ocean Observations Panel (COOP), Group under

the Global Ocean Observing System (GOOS) of the Intergovernmental Oceanographic Commission - UNESCO.

1997-2001 Member of the GLOBEC International Scientific Steering Committee Member (Dr. R.Harris, chair)

1999-2006 Member of the European Space Agency's Earth Science Advisory Committee (ESAC).

2002-2006 External personality of the administrative board of MERCATOR, France.

### Awards

2007: European Geophysical Union (EGU) Fridtjof Nansen Medal for Oceanography

2008: UNESCO Intergovernmental Oceanographic Commission 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 from the University of Liege, Belgium.

### Editorial activities

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

2005-2017: **Topic Editor** of Ocean Sciences, EGU Journal

2007-2017: **Associate editor** of *Journal of Operational Oceanography*

2011-present: Member of the Editorial Board of **The Sea**, Journal of Marine Research, Yale University

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

2017-2020: **Editor**, Journal of Geophysical Research Oceans

### Research Items

Hecht A, Pinardi N, Robinson A R. Currents, Water Masses, Eddies and Jets in the Mediterranean Levantine Basin[J]. Journal of Physical Oceanography, 1988, 18(10):1320-1353.

Dobricic S, Pinardi N. An oceanographic three-dimensional variational data assimilation scheme[J]. Ocean Modelling, 2008, 22(3–4):89-105.

Roussenov V, Stanev E, Artale V, et al. A seasonal model of the Mediterranean Sea general circulation[J]. Journal of Geophysical Research, 1995, 100(C7):13515-13538.

Robinson A R, Spall M A, Pinardi N. Gulf Stream Simulations and the Dynamics of Ring and Meander Processes[J]. Journal of Physical Oceanography, 2010, 18(18):1811-1854.

Grandi A, Tonani M, Pinardi N, et al. The GNOO-INGV Mediterranean ocean Forecasting System and Adriatic sea Forecasting System[C]// Oceanobs. 2009.