

**Antonio Navarra**  
**Curriculum Vitae**

**Personal Details**

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**Date of Birth:** September 29, 1956

**Nationality:** Italian

Office Address:

Fondazione Centro Euro-Mediterraneo sui Cambiamenti  
Climatici  
Viale Berti Pichat 6/2  
40127 Bologna - Italy

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**Education**

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Princeton University, Ph.D	1985, Ph.D.
Princeton University, Master of Arts	1982, M.A
University of Bologna, Laurea in Fisica, 110 e lode	1980
ECMWF, Reading, UK (Teaching Course)	1980
CERN, Geneva, Switzerland (Summer Student)	1979

**Professional Experiences**

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Full Professor, Meteorology and Climatology, University of Bologna	2020-present
Director of Struttura Ambiente, INGV	2013-2014
Board of Directors, Istituto Nazionale di Astrofisica	2008-2011
Affiliate Scientist, NCAR, Boulder, USA	2007-2019
President, Centro Euro-Mediterraneo sui Cambiamenti Climatici	2005-present
Board of Directors, Istituto Nazionale di Geofisica e Vulcanologia	2000-2004
Dirigente di Ricerca, Istituto Nazionale di Geofisica e Vulcanologia	1999-present
Scientist, permanent position, IMGA-CNR	1988-1999
Scientist, contract researcher, IMGA-CNR	1987-1988

*Visiting Scientist:*

National Center for Atmospheric Research, Boulder, USA	1992-present
Max-Planck-Institut fur Meteorologie, Hamburg	1993, 1994, 1995
GFDL/Princeton University	1992, 1993, 1994
Harvard University	1987, 1988
University of Maryland	1986, 1987

**Awards**

Guest Professor, Shandong University, Laoshan, China	2019
Menzione d'onore, Regione Emilia-Romagna	2019

## **Teaching Activities**

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1. Contract Professor, Ph.D Program in Science and Management of Climate Change, University of Venezia 2008-present
2. Contract Professor, “*Meteorology and Climatology*”, Corso di Laurea in Scienze Ambientali, Sede di Ravenna, University of Bologna 1997-2006
3. Special Lecturer, Special series of 20 lectures, ”*Meteorologia e Climatologia*”, Corso di Laurea in Fisica, University of Bologna 1996-1997

### ***Thesis Supervisor or Co-supervisor:***

Andrea Alessandri, Laurea in Scienze Ambientali, University of Bologna, A.A. 2001-2002  
Sede di Ravenna

Michela Montebelli, Laurea in Scienze Ambientali, University of Bologna, A.A. 2000-2001  
Sede di Ravenna

Umberto Resmi, Laurea in Scienze Ambientali, University of Bologna, Sede di Ravenna A.A. 1998-1999

Luca Criscuolo, Laurea in Scienze Ambientali, University of Bologna, Sede di Ravenna A.A. 1998-1999

Elisa Pollini, Laurea in Scienze Ambientali, University of Bologna, Sede di Ravenna A.A. 1998-1999

Annalisa Cherchi, Laurea in Fisica, University of Bologna A.A. 1997-1998

Giulio Boccaletti, Laurea in Fisica, University of Bologna A.A. 1996-1997

Maria Luisa Cassani, Laurea in Matematica, University of Bologna A.A. 1996-1996

### ***Supervisor or Co-supervisor of Graduate Ph.D Level:***

Marianna Benassi, Ph.D Program in Science and Management of Climate Change, 2016  
University of Venezia

Giovanni Conti, Ph.D Program in Science and Management of Climate Change, University of Venezia 2015

Giuseppe Zappa, Ph.D Program in Science and Management of Climate Change, University of Venezia 2011

Stefano Matera, Dottorato in Scienze Ambientali, Bologna 2009

Andrea Alessandri, Dottorato di Geofisica, University of Bologna 2006

Annalisa Cherchi, Dottorato di Geofisica, University of Bologna 2003

Silvio Gualdi, PhD University of Hamburg 1996

### ***Graduate Committees***

Dottorato "Science and management of Climate Change", Ca' Foscari University, 2008-present  
Venezia

## **Institution Building**

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Antonio Navarra has planned and directed the process of creation of the Centro EuroMediterraneo sui Cambiamenti Climatici ([www.cmcc.it](http://www.cmcc.it)), that is the national Italian center for modeling studies of climate change and its impacts. As the Director of the center, he has supervised the innovative corporate structure of the center, a no-profit partnership of public and private research organizations, its planning and implementation. The Center started operations in 2005 with a

starting fund of 27 Million Euro and now includes more than 200 researchers, headquarters in Lecce and offices in Bologna, Venezia, Milano, Viterbo, Sassari and Capua. The yearly budget has reached around 20M euro by winning other national research contracts from public and private funders and from framework programs of the European Community.

## **Assignments**

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- Member Assembly, Mission Adaptation, Horizon Europe Program, 2019-present
- Board of Directors, Association “Big Data”, Bologna 2019-present
- European Center for Medium range Weather Forecasts, (ECMWF), Board member 2017-present
- President of the Accreditation Panel, United Nations Adaptation Fund Board 2018
- Cluster of Excellence Review Panel, German Science Foundation, (DFG), Bonn 2018
- Member of the United Nations Adaptation Fund Board 2017-2018
- Member of the Governing Board, EU Joint Programming Initiative – Climate 2012-present
- Member of the Scientific Steering Committee of PRACE 2012-2017
- Member of the *Science Advisory Committee of Climate Center for Climate Information Services (APCC)*, Busan, South Korea 2006-present
- Member of the Scientific Council of WWF Italy 2004-2018
- Expert evaluator for the European Commission of the “*Marie Curie*” program
- Expert evaluator for the European Commission of the “*Marine Science and Technology*” program
- Expert evaluator for the European Commission of the “*Environment and Climate*” program
- Expert at the meeting of *CLIVAR* (NEG 1) of the Working Group 1, Hamburg 1997
- Executive Committee of *EUROCLIVAR* 1996-1999
- Executive Committee for the environmental modelling at ICTP, Trieste 1996- 1997
- Expert at CLIVAR Workshop on “*Atmosphere-ocean interaction and their influence on decadal-scale climate variability*”, Vancouver, Canada 1996
- Coordination commission of European Community modelling for the *MAST* project 1989-1998
- Member of the Scientific Council of IMGA-CNR 1987-1998

## **Official appointments:**

- Presidency of the Council, Interministerial Steering Committee for Meteorology and Climatology 2017-present
- Intergovernmental Panel on Climate Change, Focal Point for Italy 2013-present
- Contributing Author to “Chapter 23 – Europe” of the IPCC 5<sup>th</sup> Assessment Report
- National delegate of the Program Management Committee “*Environment including climate change*” of the 6th Framework program of the European Union, 2006-2009

- Eligible for selection as Director of the Environment Department of CNR 2006
- Organizing Committee, CNR Environment Department, 2003-2005
- Member as Expert of the management committee of the Sixth Framework Program of the European Union 2002-2006
- Member of the Commission for the Organization of the National Institute of Geophysics and Volcanology 2000
- Member as Expert of the program management committee “*Energy, Environment and sustainable development*” of the 5th Framework program of the European Union 1998 -2002

## Professional Activities

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### **Seminars and presentations at Congresses and Conferences (since 2003)**

- *Inauguration of the 65th Academic Year, University of Salento, 14 February 2020*
- *Inauguration of the 38th Academic Year, University of Brescia, 9 December 2019*
- *1st Symposium of Climate Variation, Prediction and Application: 20-year anniversary of IOD research, Nanjing, China, 17-19 November 2019*
- *The 8th China-Italy Collaboration Workshop on Operational Oceanography and Regional Climate Change: Meeting Sustainable Development Goals, Qingdao, China, 3-6 November 2019*
- *ICAS International Computing in the Atmospheric Sciences Symposium, Stresa, Italy, 9-12 September 2019*
- *The ‘Arctic: Territory of Dialogue’ 5th International Arctic Forum, St Petersburg, Russia, 8 April 2019*
- *Climate Change and Natural Disasters, Athens, Greece, 21 October 2018*
- *APEC Climate Symposium, Manila, Philippines, 2-4 November 2015*
- *G7 Outreach Conference, Berlin, Germany, 29-30 April 2015*
- *WHO Meeting of the Scientific Committee members for the training resources for capacity building on climate change and health, Bonn, Germany, 22-24 January 2014*
- *The latest assessment report of the IPCC: summarizing health implications for environment and health professionals, Bonn, Germaniy, 27-28 May 2014*
- *Advisory Panel for the Peer Review of the Regional Framework for Adaptation to Climate Change in Coastal and Marine Areas in the Mediterranean, Athens, Greece, 17-18 December 2014*
- *Stochastics in geophysical fluid dynamics, Palo Alto, USA, 4-7 February 2013*
- *New faces on Climate Variability, Yokohama, Japan, 29-30 October 2013*
- *WHO meeting: Training toolkit on climate change and health, Bonn, Germany, 5-6 March 2013*
- *Rio +20 Corporate Sustainability Forum, Rio de Janeiro, Brasil, 17-22 June 2012*
- *International Symposium on Climate Variations: From Basic Research to Rich Applications, Tokyo, Japan, 11-12 April 2012*
- *Climate Change Impacts on Water and Security in Southern Europe and Neighboring regions, Munich, Germany, 15 February 2012*
- *APEC Climate Symposium 2011: Harnessing and Using Climate Information for Decision Making, Honolulu, Hawaii, 17-20 October 2011*
- *Brazil: The New Global Green Economy - III Sustainable Development Forum, New York, USA, 25-27 September 2011*

- *Environment and Sport contributing to Green Games*, Rio de Janeiro, Brasil, 18 July 2011
- *Making sense of the multi-model decadal prediction experiments from CMIP5*, Aspen, USA, 26 June – 1 July 2011
- *Modeling and Policy of CO<sub>2</sub> Removal from the Atmosphere*, Venice, Italy, 30-31 May 2011
- *IS-ENES Foresight Meeting*, Hamburg, Germany, 2-4 February 2011
- “*Supercomputing: the Imperative and the Path Forward*”, Abu Dhabi, United Arab Emirates, 9-10 January 2011
- *Operational Oceanography and Climate Change in shelf and coastal seas (OOC)*”, Shanghai, China, 25-26 October 2010
- *Adaptation to Climate Change in the Coastal Zones of the Mediterranean Region and China Workshop*, Shanghai, China, 16 September 2010
- *International Conference on Energy, Water and Climate Change in the Mediterranean & Middle East*, Cyprus, 11-15 January 2010
- *Climate Variations in South Africa and Roles of Subtropical Oceans*, Tokyo, Japan, 3 December 2009
- *Capacity Building in the Field of Environment*, Ankara, Turkey, 19 November 2009
- *Milutin Milankovitch 130<sup>th</sup> Anniversary Symposium: Climate Change at the Eve of the Second Decade of the Century – Inferences from paleoclimate, and regional aspects*, Belgrade, Serbia, 22-25 September 2009
- *Scoping Meeting for the IPCC Fifth Assessment Report*, Venice, 13-17 July 2009
- 17<sup>th</sup> Session of the Commission on Sustainable Development, Side Event: *Adaptation to Climate Change in the Pacific. A model for International Cooperation for Sustainable Development*, New York, USA, 12 May 2009.
- *Collaboration Workshop on Operational Oceanography between Italy and China*, Beijing, China , 27 February – 1 March 2009,
- *EU-MED Event on E-Infrastructures in the Mediterranean*, Amman, Jordan, 4 November 2008
- *Symposium Making Europe Climateproof: The European Institute of Innovation and Technology (EIT) and its Potentials in Climate Research*, Potsdam, Germany, 20 October 2008
- *EC-China Workshop*, Helsinki, Finland, 12-14 October 2008
- *Workshop of the Euro-Asian Research and Training in Climate Change Management*, Venice, Italy, 9-10 October 2008
- *EPAC 11th European Particle Accelerator Conference*, Genova, 23-27 June 2008
- *Norwegian networking project (Ocean Prediction Networking) – OPNet*, Geilo, Norway, 7-8 November 2008
- *Symposium on Predictability of Climate Variations in the Indo-Pacific Sector*, Shinagawa, Japan, 8-9 March 2007
- *International Conference on Climate Change Strategies for African and Mediterranean regions*, Tunis, Tunisia, 18-20 November 2007
- *Climate change modelling and predictions: the vulnerability of China*, Beijing, China, 31 October 2007
- *Conferenza nazionale sui Cambiamenti Climatici* – FAO, Rome, Italy, 12 September 2007
- *International Conference on Science and Technology for Sustainability 2007 International Cooperation for Development*, Tokyo, Japan, 6-8 September 2007
- *Meeting GEOITALIA, 6° Forum Italiano di Scienze della Terra*, Rimini, Italy, 13 September 2007
- *International Conference on Science and Technology for Sustainability 2007 International Cooperation for Development*, Tokyo, Japan, 6-8 September 2007

- *Workshop on Infectious diseases and Environmental Change*, Stockholm, Sweden, 29-30 March 2007
- *Financing the Next Industrial Revolution Global Investments for Climate and Energy Security*, Berlin, Germany, 26-27 March 2007
- *Seminario GISS (Goddard Institute for Space Studies) – NASA*, New York , USA, 19-22 December 2006
- *Workshop Geoscience Application Requirements for Petascale Architectures (GARPA)*, Arlington, USA, 1-2 June 2006
- Conference *Elementi: acqua, aria, terra, fuoco*, Parma, Italy, 17-21 May 2006
- Workshop *Low Stabilisation Scenarios – Strategies, Technologies and Costs*, Potsdam, Germany, 16-17 March 2006
- Symposium *The Changing Chemical Climate of the Atmosphere*, Urbino, Italy, 14-15 September 2005
- Conference "Il Clima che verrà", Parma, Italy, 11 December 2004
- Cooperation meeting Italy-Japan, Tokyo – Japan, 23-27 November 2004
- Cooperation meeting Italy-Serbia, Rome, Italy, 22 November 2004
- 4th Ministerial Conference on Environment and Health, Budapest, Hungary, 9-10 February 2004
- World Climate Change Conference, Moscow, Russia, 1-3 October 2003

### **Participation in Congresses, Committee and Conferences (since 2003)**

- *COP 25 Climate Change Conference*, Madrid, Spain, 2-13 December 2019
- *18th Governing Board Meeting of JPI Climate*, Dublin, Ireland, 26-28 November 2019
- *Workshop on Machine Learning for Weather and Climate Modelling*, Oxford, UK, 2-5 September 2019
- *Eighteenth World Meteorological Congress*, Geneva, Switzerland, 3-14 June 2019
- *17th JPI Climate Governing Board Meeting*, Helsinki, Finland, 14-15 May 2019
- *Strategic Workshop MOI of MERCATOR project*, Bruxelles, Belgium, 3-4 April 2019
- *ERA4CS 4th General Assembly*, Madrid, Spain, 28-29 November 2018
- *WCERE – 6th World Congress for Environmental and Resources Economists*, Göteborg, Sweden, 27-28 June 2018
- *Adaptation Fund Board Accreditation Panel Meeting*, Washington DC, USA, 21-23 May 2018
- *31rst Meeting of the Adaptation Fund Board*, Bonn, Germany, 20-23 March 2018
- *47th Session of the IPCC*, Paris, France, 13-16 March 2018
- *27th Adaptation Fund Board Accreditation Panel Meeting*, Washington DC, USA, 6-7 February 2018
- *55th Session of the IPCC Bureau*, Geneva, Switzerland, 29-31 January 2018
- *COP 13*, Bonn, Germany, 13-17 November 2017
- *54th Session of the IPCC Bureau Meeting*, Montreal, Canada, 5-10 September 2017
- *53rd Session of the IPCC Bureau Meeting*, Guadalajara, Mexico, 26-31 March 2017
- *Adaptation Fund Board Meeting*, Bonn, Germania, 17-18 March 2016
- *IPCC Conference*, Geneva, Switzerland, 16-17 February 2016
- *Advancing the Climate Modelling Enterprise in Europe*, Chicheley, UK, 11-12 January, 2016
- *COP21 Conference*, Paris, France, 30 November – 12 December 2015

- *JPI Climate Governing Board meeting - Taking stock and inspiring the future*, Madrid, Spain, 18-19 November 2015
- *42nd Session of the IPCC Meeting*, Dubrovnik, Croatia, 5-8 October 2015
- *United Nation Climate Change Conference - Subsidiary Bodies of UNFCCC 2015*, Bonn, Germany, 1-11 June 2015
- *4th meeting of Task Force on ERA-net Climate Services*, Bruxelles, Belgium, 20-21 January 2015
- *PRACE SSC Meeting*, Bruxelles, Belgium, 19-20 January 2015
- *H2020 SC5 Advisory Group meeting*, Bruxelles, Belgium, 21-23 May 2014
- *7th Governing Board Meeting of JPI Climate*, Paris, France, 20-21 May 2014
- *EGU European Geosciences Union General Assembly 2014*, Vienna, Austria, 27 April – 2 May 2014
- *4th Meeting of the H2020 Advisory Group for the Societal Challenge 5 “Climate action, environment, resource efficiency and raw materials” (SC5)*, Bruxelles, Belgium, 13-14 March 2014
- *COP 19 Climate Change Conference*, Warsaw, Poland, 8-22 November 2013
- *COP 18 - UN Climate Change Conference*, Doha, Qatar, 3-4 dicembre 2012
- *Joint Programming Initiative Climate: Connecting Climate Knowledge for Europe*, Bruxelles, Belgio, 7 November 2012
- *WMO Extraordinary Congress*, Ginevra, Switzerland, 29 October 2012
- *Environmental Sciences and Engineering*, Podgorica, Montenegro, 3 April 2012
- *IS-ENES Second General Assembly*, Lecce, Italy, 12-14 December 2011
- *16th Conference of the Parties (COP 16) serving as the meeting of the Parties to the Kyoto Protocol (CMP 6)*, Cancun, Mexico, 29 November – 10 December 2010
- *1st JPI Clik'EU SRA workshop*, Bruxelles, Belgium, 5-6 October 2010
- *Kick-off meeting EU-China Clean Energy Centre Project*, Pechino, China, 28 April 2010
- *IS-ENES (InfraStructure for the European Network for Earth System Modelling) Scoping Meeting*, Montvillargennes, France, 29-31 March 2010
- *United nation Climate Change Conference*, Copenhagen, Denmark, 7-18 December 2009
- *16th Ordinary Meeting of the Contracting Parties to the Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean and its Protocols*, Marrakesh, Morocco, 3-5 November 2009
- *Climate Change and Sustainable Development in the Mediterranean Region and Southern Eastern Europe*, Budva, Montenegro, 16-17 October 2009
- *6th Executive Board Meeting CIRCE*, Paris, France, 14 October 2009
- *14<sup>th</sup> Annual CCSM (Community Climate System Model) Workshop*, Breckenridge, USA, 15-18 June 2009
- *Infrastructure for the European Network for Earth System modelling*, Paris, France, 30-31 March 2009
- *Fourth Meeting of the Joint Committee Cooperation Programme of the Italian and Austrian Governments, the Milan Municipality and the Governments of the Pacific Small Island States*, New York, 16 January 2009
- *Workshop Reducing Emissions from Deforestation and Forest Degradation (REDD)*, Milano, Italy, 18 November 2008
- *Common Concern for the Arctic*, Ilulissat, Greenland, 9-11 September 2008
- *EuroScience Open Forum (ESOF)*, Barcelona, Spain, 18-22 July 2008
- *41st Session of the IOC Executive Council*, Paris, France 24 June - 1 July 2008
- *World Modelling Summit for Climate Prediction*, London, England, 6-9 May 2008
- *United Nations Climate Change Conference*, Bali, 12 December 2007

- *2007 General Assembly” of ENES (European Network for Earth System Modelling)*, Paris, France, 22-23 October 2007
- Meeting *GEOITALIA, 6° Forum Italiano di Scienze della Terra*, Rimini, Italy, 13 September 2007
- *Conferenza nazionale sui Cambiamenti Climatici – FAO*, Rome, Italy, 12 September 2007
- *Third meeting of the Environment (including climate change) configuration of the Programme Committee for the Specific Programme "Cooperation" under FP7*, Bruxelles, Belgium, 10 July 2007
- *Cooperation on Climate Change and on the clean development mechanism and Article 12 of the Kyoto Protocol, Vanuatu*, 29 June – 2 July 2007
- *Bilateral Steering Committee Meeting between United States of America and Italy*, Washington, USA, 18 June 2007
- *La ricerca italiana sui cambiamenti climatici. Scenari, impatti, politiche*, Gallipoli, Italy, 29 May, 1 June 2007
- *Cambiamenti climatici e sviluppo*, Vaticano, 26 April 2007
- *European Geosciences Union (EGU) General Assembly*, Vienna, Austria, 13-18 Aprile 2007
- *Intergovernmental Panel on Climate Change (IPCC)*, Paris, France, 29-30 January 2007
- Seminar *GISS (Goddard Institute for Space Studies) – NASA*, New York , USA, 19-22 December 2006
- *Assessing the UNCCD process and identifying challenges ahead (UNCCD: United Nations Convention to Combat Desertification)*, New York, USA, 1-2 November 2006
- High Performances Computing in Geosciences, Boulder, USA, 24-27 September 2006
- *APEC Climate Center International Symposium*, Busan, Korea, 14-16 September 2006
- Conference *Il Sistema Italia e la Progettazione Europea. Casi studio e di successo nel settore della cooperazione ambientale*, Bruxelles, Belgium, 22 June 2006
- Conference *16 February 2005 – 16 February 206: un anno di Protocollo di Kyoto*, Rome, Italy, 16 February 2006
- Conference *Aurelio Peccei Lecture 2005 – Incontro con Jared Diamond*, Rome, Italy, 15 November 2005
- *First meeting of the WCRP Modelling Panel (WMP)*, Exeter, UK, 5-7 October 2005
- Round table on *Cambiamenti Climatici fra Ricerca Scientifica e Sviluppo Sostenibile*, Viterbo, Italy, 24 September 2005
- Conference *Global Monitoring for Environment and Security*, Paris, France, 23 September 2005
- Meeting *Ensembles: based predictions of climate changes and their impact*, Athens, Greece, 5-9 September 2005
- Conference *Solar Variability and Earth's Climate*; Monte Porzio Catone (Rome), Italy, 27 June – 1 July 2005
- Workshop *Post 2012 Climate Policy: Architectures and Participation Scenarios*, Venice, Italy, 20-21 June 2005
- NATO Course *Seasonal to Interannual Climate Variability: its Prediction and Impact on Society*, Gallipoli (LE), Italy, 23-26 May 2005
- *IGFA-ICSU Workshop on the Interface Between Global Change and Development Oriented Research*, Stockholm, Sweden, 16-19 May 2005
- 11<sup>th</sup> Meeting of the Management Committee of the *Climate Change and Sustainability*, Bruxelles, Belgium, 10-11 May 2005
- International Seminar “*Il Protocollo di Kyoto: una opportunità per la Cooperazione Regionale*”, Borgo della Conoscenza, Siena, Italy, 11-13 April 2005.
- Participation to the Delegation to Italian Exhibition, New Delhi, India, 13-16 February 2005

- Meeting Ensembles, Paris, France, 10-11 February 2005
- Workshop “*Gestione Ecosistemi e Agricoltura*”, Sevizio Meteorologico Regionale per la Sardegna, Alghero, Italy, 1-3 February 2005
- Conference “*Climate Stabilization*”, Exeter UK, 30 January - 1 February 2005
- Meeting FIRB, Rome, Italy, 14-16 December 2004
- Participation to the Ionospheric School, Rome, Italy, 9 November 2004
- Kick-off meeting of ENSEMBLES, Hamburg - Germany, 14-16 September 2004
- Meeting for Project Italy – USA Cooperation, New York USA, 3-4 August 2004
- Workshop on Climate Policy, Venice, Italy, 9-11 June 2004
- Meeting ENSEMBLE, Londra - UK, 27 May 2004
- Forum GMES, Naples, Italy, 21 May 2004
- Workshop G8, New York USA, 20-22 April 2004
- Workshop G8, Washington USA, 18-20 April 2004
- Participation Italian Delegation GEO, Cape Town - South Africa, 22-28 February 2004
- Workshop “*WHO Climate and Heath*”, Bratislava, Slovakia, 8-10 February 2004
- Symposium ENES, De Bilt, The Netherlands, 12 January 2004
- Side Event - COP9 , Milan, Italy, 10-11 December 2003
- Side Event - COP9 , Milan, Italy, 1-2 December 2003
- 2° Meeting GEO, Baveno, Italy, 28-29 November 2003
- Workshop “*Hydrogen Economy*”, Sacramento USA, 14-17 September 2003
- Conference on the Sustainable Development, Washington USA, 28 April-3 May 2003
- Working Group G8 Environment, Paris, France, 25-26 February 2003
- Seminar on the Sustainable Development , Venice, Italy, 10-11 February 2003
- Meeting GMES, Rome, Italy, 29 January 2003
- GMES Forum / Roma MAE, Amsterdam, The Netherlands and Rome, Italy, 14-16 January 2003
- Working Group GMES, Bruxelles, Belgium, 10 January 2003

## **Editorial Activities**

- Reviewer of papers for “Journal of Computational Physics”, “Journal of Atmospheric Sciences”, “Journal of Climate”, “Climate Dynamics”, “Monthly Weather Review” and US National Science Foundation

## **Operational Responsibilities**

Coordinator of the following EU Projects:

- International Coordinator for the ORIENTGATE project, (2011-2014), 19 partners, 4,000,000 EURO, within the Interreg SEE (South East Europe).
- International Coordinator for the CIRCE project, *Climate Change and Impact Research: the Mediterranean Environment* ([www.circeproject.eu](http://www.circeproject.eu)), 64 Partners, 10.000.000 EURO, 2007-2011 within the EU ENVIRONMENT FP6 project.
- International Coordinator for the SINTEX project, *Decadal and Interdecadal climate variability: Scale Interaction Experiments* 12 Partners, 2.000.000 EURO, 1998-2001, within the ENVIRONMENT FP4 program.
- International coordinator for the EU project AGORA, “*Assessment of the global ocean circulation with data assimilation methods*”, 1.000.000 EURO, 1996-1998, involving Edinburgh University (U.K.), CNRS (Toulouse, France), CLS (Toulouse, France), the

Institute for Oceanographic Sciences (Southampton), the Nansen Environmental and Research Center (Bergen, Norway) and CINECA (Bologna, Italy)

- International coordinator for the EU project “DICE”, “Decadal and Interdecadal Climate variability Experiments” within the ENVIRONMENT EU program, 906.000 EURO, 1994-1997, involving 8 Institutions, Max-Planck-Institut, (Hamburg), UK Meteorological Office (UK), Dutch Meteorological Office (Holland), LODYC (France), CINECA, ENEA and the University of Reading, (UK) and Alcalà (Spain).

Furthermore he has been investigator for several projects within the Framework Programs of the EU.

## Professional Societies

Member of the American Meteorological Society

President of the Società Italiana per le Scienze Climatiche (until 2014).

## Bibliometric Data (March 5, 2020)

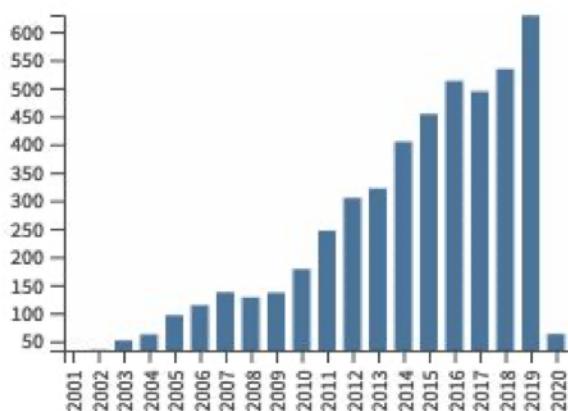
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### Web of Science

h-index: 39                    since 2015: 32

Citations: 5085

Citations without self-citations: 4829



Citations Web of Science

### Scopus

h-index: 39

Citations: 5287

### Google Scholar

h-index: 46                    since 2015: 32

i10 index: 105                since 2015: 71

Citations: 8304                since 2015: 4019

## Publications

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- **National and International Publications**

1. Schneider T, Behera S, Boccaletti G, Deser C, Emanuel K, Ferrari R, Leung LR, Lin N, Müller T, NAVARRA A, Ndiaye O, Stuart A, Tribbia J e Toshio Yamagata T, *Harnessing AI and computing to advance climate modelling and prediction*, **Nature Climate Change**, Vol. 13, September 2023, 887-889, <https://doi.org/10.1038/s41558-023-01769-3>, 2023.
2. Conti G, Aydoğdu A, Gualdi S, NAVARRA A and Tribbia J, *On the physical nudging equations*, **Clim. Dyn.** **58**, 1459–1476, <https://doi.org/10.1007/s00382-021-05972-w>, 2022.
3. Lovato T, Peano D, Butenschön M, Materia S, Iovino D, Scoccimarro E, Fogli P G, Cherchi A, Bellucci A, Gualdi S, Masina S and NAVARRA A, *CMIP6 simulations with the CMCC Earth System Model (CMCC-ESM2)*, **Journal of Advances in Modeling Earth Systems**, **14**, e2021MS002814. <https://doi.org/10.1029/2021MS002814>, 2022.
4. NAVARRA A, *The role of systematic errors*, **National Science Review**, nwab082, <https://doi.org/10.1093/nsr/nwab082>, 2021.
5. Scoccimarro E, Villarini G, Gualdi S and NAVARRA A, *The Pacific Decadal Oscillation modulates tropical cyclone days on the interannual timescale in the North Pacific Ocean*, **J. Geophys. Res.: Atmospheres**, **126**, e2021JD034988, 2021.
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