

**ADDRESS**

Abdus Salam International Centre for Theoretical Physics  
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**DATE AND PLACE OF BIRTH**

9 February 1959, Sulmona, Italy

**RESEARCH EXPERIENCE AND INTERESTS**

Regional and global climate modeling and diagnostics; global change; parameterizations of physical processes for regional and global circulation models; coupling of regional and general circulation models; anthropogenic climate change and natural climate variability; chemistry-climate interactions; tracer transport and aerosol modeling; climatic effects of aerosols; biosphere-atmosphere interactions; the hydrologic cycle; impacts of climate on society and ecosystems.

**EDUCATION**

**B.S./M.S.** 1982, Italian Laurea in Physics (emphasis Atmospheric Sciences), Department of Physics, University of L'Aquila, L'Aquila, Italy. Supervisors: G. Visconti and R. Benzi. Thesis Title: Development of a Two-Layer General Circulation Model for Studies of Climatic Sensitivity. Grade: Summa cum Laude.

**Ph.D.** 1986, School of Geophysical Sciences, Georgia Institute of Technology, Atlanta, Georgia. Supervisors: W. L. Chameides and R. E. Dickinson. Thesis Title: Development of an Atmospheric Aerosol Model for Studies of Global Budgets and Effects of Airborne Particulate Material. GPA: 4.0 (100%).

**PROFESSIONAL EXPERIENCE**

<b>Research Fellow</b>	IBM Scientific Center, Rome, Italy, February 1982–September 1982.
<b>Research Assistant</b>	School of Geophysical Sciences, Georgia Institute of Technology, January 1983–August 1984.
<b>Research Assistant</b>	National Center for Atmospheric Research, Boulder, Co. Graduate Research Assistantship in the Advanced Study Program, August 1984–June 1986.
<b>Postdoctoral Fellow</b>	National Center for Atmospheric Research, Boulder, Co. Postdoctoral Fellowship in the Advanced Study Program, June 1986–October 1987.
<b>Scientist I</b>	Climate and Global Dynamics Division, National Center for Atmospheric Research, Boulder, CO, October 1987–June 1991.

<b>Scientist II</b>	Climate and Global Dynamics Division, National Center for Atmospheric Research, Boulder, CO, July 1991–July 1994.
<b>Deputy Sectn. Head</b>	Interdisciplinary Climate Systems Section, Climate and Global Dynamics Division, National Center for Atmospheric Research, Boulder, CO, September 1992–September 1995.
<b>Visiting Scientist</b>	Institute for Remote Sensing Applications, Joint Research Centre, Ispra Establishment, Ispra, Italy, January 1993–December 1993.
<b>Scientist III</b>	Climate and Global Dynamics Division, National Center for Atmospheric Research, Boulder, CO, July 1994–April 1998.
<b>Senior Scientist</b>	Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, May 1998–present.
<b>Head</b>	Physics of Weather and Climate Group, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, May 1998–August 2005.
<b>Vice-Chair</b>	Intergovernmental Panel on Climate Change (IPCC), Working Group I, The physical science of climate change, April 2002–September 2008.
<b>Head</b>	Earth System Physics Section, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, September 2005–present.

## OTHER PROFESSIONAL ACTIVITIES

Leader of a research effort to develop and maintain a regional climate model (RegCM) for community use (1989 to present).

Organizer of a special issue of the Journal of Geophysical Research dedicated to “New Developments and Applications with the NCAR Regional Climate Model (RegCM)”, appeared in March 1999.

Organizer of a special issue of Theoretical and Applied Climatology dedicated to “The ICTP Regional Climate research NETWORK (RegCNET), appeared in September 2006.

Lead Author of Chapter 6 (“Climate Models - Projections of Future Climate”) of the IPCC Working Group I Second Assessment Report on the Science of Climate Change (1996).

Coordinating Lead Author of Chapter 10 (“Regional Climate Information - Evaluation and Projections”) of the IPCC Working Group I Third Assessment Report on the Scientific Basis of Climate Change (2001).

Reviewer of journal articles (approximately 15-20 per year) for a number of international journals.

Editor, Climate Research (September 2008 - present).

Coordinator of Scientific Programmes, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy (2002-present).

Co-leader of RegCNET, a regional climate research network currently involving over 750 participants (2003-present).

Lead Author of Chapter 21 (“Regional Context”) of the IPCC Working Group II Fifth Assessment Report (AR5) on the Impacts of Climate Change and Adaptation.

## AWARDS AND RECOGNITIONS

1982: IBM Research Fellowship, Rome, Italy

1992: Nominated for the NCAR Outstanding Publication Award

2002: Elected as vice chair of the IPCC WGI Bureau

2004: Included in the ISI Highly Cited Researcher list for Geosciences (top 0.5% of the most highly cited scientists in Geosciences during the previous 20 years)

2007: Co-recipient of the Nobel Peace Prize to IPCC as Vice-chair of Working Group I.

2008: Dante Alighieri Prize from the Dante Alighieri Society for Italian Culture in the World.

2008: Gold Medal for Civic Merits from the Provincia dell'Aquila, Italy.

Research featured in: *Science*, 288, p. 2113, 23 June 2000; *Science*, 294, p. 765, 26 October 2001; *Nature*, 425, p. 338-339, 25 September 2003; *Nature*, 428, p. 593, 8 April 2004; *Nature*, 436, p. 307, 21 July 2005; *National Geographic News*, 18 October 2005; *Science*, 310, p. 1278-1279, 25 November 2005; *New Scientist*, p. 21, 6 May 2006; *Science News*, 10 July 2006; *Nature Reports*, August 2007; *Science*, p. 909, 15 August 2008.

## SCIENTIFIC COMMITTEES

Co-chair of the START/TEA (Temperate East Asia) Steering Committee (1995 - 2000)

Member of the Scientific Steering Committee for the European Union project Research in Global Change in the Mediterranean: A Regional Network (RICAMARE) (1999 - 2001)

Member of the Project for Intercomparison of Regional Climate Simulations (PIRCS) Advisory Committee (1996 - 2000)

Member of the IPCC Task Group on Climate Impact Assessment (TGCIA) (1996 - 2003)

Member of the Review Committee of the Royal Netherlands Meteorological Office (KNMI) (2004)

Member of the Scientific Steering Committee for the European Union project Prediction of Regional Scenarios and Uncertainties for Defining European Climate Change Risks and Effects (PRUDENCE) (2001 - 2004)

Member of the Steering Committee of the Planbleu project "Climate change and energy in the Mediterranean" (2007 - 2008).

Member of the Scientific Advisory Group for the international project COSMOS (2003 - 2008).

Member of the Scientific Steering Committee of the CAS-TWAS-WMO Forum for Physico-Mathematical Problems Related to Climate Modeling and Prediction (2001 - present)

Member of the IPCC Bureau as Vice Chair of Working Group I (the Science of Climate Change) for the Fourth Assessment Report (2002 - 2008)

Member of the JSC/CLIVAR Working Group on Climate Modeling (WGCM) (2005 - 2010).

Member of the Steering Committee of the project MEDCLIVAR (2006 - present).

Member of the WMO/ICSU/IOC Joint Scientific Committee (JSC) for the World Climate Research Program (WCRP) (2009-2012).

Member of the Scientific Advisory Board of the Catalan Institute of Climate Sciences (IC3) (2008 - present).

Co-chair, WCRP Task Force of Regional Climate Downscaling (TFRCDD) (2008 - present).

Member of the Scientific Advisory Committee of the EU Project, InfraStructure for the European Network for Earth System modeling (IS-ENES) (2009-present).

Member of the Scientific Council, CINECA Supercomputing Center, 2010-present.

Chair of the ANVUR (Agenzia Nazionale per la Valutazione del sistema Universitario e della Ricerca) Evaluation Panel for the Geosciences sector, 2011-present.

## SCIENTIFIC SUPERVISORY RESPONSABILITIES

Stephen Nieman, NCAR Software Engineer, 1990-1991.

Yong-Qiang Liu, NCAR Visiting Scientist (Chinese Academy of Meteorological Sciences, P.R.C.), 1992-1993.

Gerardo De Canio, NCAR Visiting Scientist (ENEA, Italy), 1992-1993.

Hiramaru Hirakuchi, NCAR Visiting Scientist (CRIEPI, Japan), 1992-1994.

Dolores Olmeda, NCAR Fullbright Visiting Fellow (National Institute of Meteorology, Spain), July 1996-March 1997.

Anji Seth, Ph.D. Candidate, University of Michigan, 1992-1995; NCAR Postdoctoral Fellow, 1995-1997.

Gary Bates, NCAR Associate Scientist, 1994-1997.

Maria Rosaria Marinucci, NCAR Visiting Scientist (U. of L'Aquila, Italy), 1989-1997.  
Eric Small, Ph. D. Candidate, U. California at Santa Cruz, 1996-1998.  
Keiichi Nishizawa, NCAR Visiting Scientist (CRIEPI, Japan), 1996-1998.  
Yan Huang, Ph.D. Candidate, Chinese Academy of Sciences, 1997-1998.  
Jian-Hua Qian, NCAR Postdoctoral Fellow, 1996-1998.  
Christine Shields, NCAR Software Engineer, 1991-1998.  
Yun Qian, ICTP Postdoctoral Fellow, 1999 - 2000.  
Allison Steiner, ICTP Visiting Scientist, April-September 2001.  
Raquel Francisco, ICTP Visiting Scientist, 1999-2000, September 2001-May 2002.  
Pu Ye, ICTP Visiting Scientist, March-November 2003.  
Faisal Saeed, ICTP Visiting Scientist, February-July 2004.  
Fabien Solmon, ICTP Postdoctoral Fellow, October 2002-December 2005.  
Nellie Elguindi, ICTP Postdoctoral Fellow, February 2003-December 2005.  
Xuejie Gao, ICTP Visiting Scientist, April-September 2004; March-December 2005.  
Frederick Meleux, ICTP Visiting Scientist, November 2004-April 2005.  
Mihaela Caian, ICTP Visiting Scientist, February-December 2005.  
Jeremy Pal, ICTP Tenure Track Scientist, May 2001-August 2006.  
Yan Bao, Visiting Scientist, September 2007-September 2008.  
Ashraf Zakey, ICTP Visiting Scientist, April-September 2002, March 2006-present.  
Sara Rauscher, ICTP Postdoctoral Fellow, September 2005-2009.  
Eun-Soon Im, Ph.D. Candidate, Pusan National University, Korea, 2002-2006; ICTP Post-doctoral fellow, 2007-2010.  
Xunqiang Bi, ICTP Assistant Scientist, October 1998-2011.  
Mahmadou Bamba Sylla, ICTP Post-doctoral Fellow, June 2008 - December 2011.  
Giovanni Tumolo, PhD Candidate - Postdoctoral fellow, University of Trieste, 2007-Present.  
Tadesse Terefe, ICTP PhD STEP Student (Universisty of Addis Abeba), June 2009 - Present.  
Modatir Zaroug, ICTP PhD STEP Student (Universisty of Khartoum), June 2010 - Present.  
Erika Coppola, ICTP Research Scientist, September 2006-present.  
Fred Kucharski, ICTP Research Scientist, September 2006 - present.  
Adrian Tompkins, ICTP Research Scientist, October 2007 - Present.  
Fabien Solmon, ICTP Research Scientist, April 2010 - Present.  
Nellie Elguindi, ICTP Visiting Scientist, April 2010 - Present.  
Gulilat Tefera Diro, ICTP Post-doctoral Fellow, April 2007 - Present.  
Ufuk Utku Turungochlu, ICTP Post-doctoral Fellow, March 2011 - Present.  
Graziano Giuliani, ICTP Post-doctoral Fellow, June 2011 - Present.  
Andrea Pozzer, ICTP Post-doctoral Fellow, September 2011 - Present.

## **RESEARCH GRANTS**

Co-Principal Investigator: Regional Climate Modeling of the Great Lakes Region. Environmental Protection Agency (EPA), 1990-1991.  
Co-Investigator: Regional Climate Predictions of Possible Change for the Yucca Mountain Project. Department of Energy (DOE), 1990-1993.

Co-Principal Investigator: Generation of Regional Climate Change Scenarios for Europe, Eastern Asia and the United States. Modeling Evaluation Consortium for Climate Assessment (MECCA), funding from CRIEPI and ENEA, 1992-1994.

Co-Principal Investigator: Development of a Regional Climate Model for Europe. Climate of the 21st Century (C21C), European Union (EU), 1993-1995.

Co-Investigator: NCAR Project to Interface Modeling on Global and Regional Scales with Earth Observing System (EOS) Observations. National Aeronautics and Space Administration (NASA), 1990-1996.

Co-Principal Investigator: Development of Climate Change Scenarios for Impact Assessments in the Great Lakes Region. National Oceanic and Atmospheric Administration (NOAA), 1993-1995.

Co-Investigator: GENESIS Earth System Modeling Project. United States Environmental Protection Agency (EPA), 1992-1997.

Co-Principal Investigator: A Modeling Study of the Regional Climate and Water Cycle of the Great Lakes Basin. National Oceanic and Atmospheric Administration (NOAA/GCIP), 1995-1997.

Co-Principal Investigator: Development of a Nested Regional Model for the Conterminous United States and Formation of High Resolution Climate Change Scenarios with an Application to Crop Climate Models. Great Plains Regional Center for Global Environmental Change, Department of Energy (DOE), 1993-1997.

Co-Principal Investigator: Prediction of the Seasonal Climate Anomalies over Eastern Africa. National Science Foundation (NSF), 1995-1998.

Co-Principal Investigator: Modeling Anthropogenic Desiccation of the Aral Sea: A Unique Test of the Predictive Capabilities of a Regional Earth System Model. National Science Foundation (NSF), 1996-1998.

Co-Principal investigator: Development of coupled climate, ecology, chemistry regional modeling activities for East Asia and study of environmental effects of anthropogenic activities over the region. Global Change Systems for Analysis, Research and Training (START) / Asia Pacific Network (APN), 1996-1998.

Co-Principal Investigator: A Study of seasonal Rainfall Predictability for Tropical South America Using a Nested Modeling System. National Oceanic and Atmospheric Administration (NOAA), 1998-2000.

Co-Investigator: The Yangtze Delta of China as an Evolving Metro-Agro-Plex (CHINA-MAP). National Aeronautics and Space Administration (NASA), 1996-2001.

Co-Investigator: Development of a regional seasonal forecasting system. Centro Elettrotecnico Sperimentale Italiano (CESI), 2000-2001, 10,000 Euros.

Co-Investigator: Prediction of Regional Scenarios and Uncertainties for Defining European Climate Change Risks and Effects (PRUDENCE). European Union (EU), 2001-2004.

Co-Investigator: COLUMBUS project, Italy-USA collaboration agreement on Climate Change Research. Italian Ministry of Environment, 2003-2005, 205,000 Euros.

Co-Investigator: ENSEMBLE-Based Predictions of Climate Changes and their Impacts (ENSEMBLES). European Union (EU), 2004-2009, 205,500 Euros.

Co-Investigator: Central and Eastern Europe Climate Change Impact and Vulnerability Assessment (CECILIA). European Union (EU), 2006-2009, 132,840 Euros.

Co-investigator. Development of regional climate change scenarios for the Mediterranean and studies of climate variability and predictability. Centro EuroMediterraneo per i Cambiamenti Climatici (CMCC), 2008-2010, 200,000 Euros.

Co-Investigator: Assessing Climatic change and impacts on the Quantity and quality of Water (ACQWA). European Union (EU), 2008-2013, 200,000 Euros.

Co-Investigator: Megacities: Emissions, urban, regional and Global Atmospheric POLLution and climate effects, and Integrated tools for assessment and mitigation (MEGAPOLI). European Union (EU), 2008-2012, 107,000 Euros.

- Co-investigator. Socioeconomic Consequences of Climate Change in Sub-equatorial Africa (SoCoCa), Norwegian Research Council, 2009-2011, 102,000 Euros.
- Co-investigator. Climate Local Information in the Mediterranean Region: Responding to User Needs (CLIMRUN), European Union (EU), 2011-2014, 250,000 Euros.
- Co-investigator. Climate Modeling of Caspian Sea Level, WRPMC, 2011-2012, 215,000 Euros.
- Co-Investigator, Atopic Diseases in Changing Climate, Land Use and Air Quality (ATOPICA), European Union (EU), 2011-2014, 249,750 Euros.

## EDUCATIONAL ACTIVITIES

- 1995** Lecturer at the NATO/ASI school on *The mathematics of models for climatology and the environment*, Tenerife, Spain, 11 - 21 January.
- 1996** Co-organizer and lecturer at the Inter American Institute *Workshop on Climate Modeling*, NCAR, Boulder, CO, 26 February - 8 March.
- 1998** Co-organizer and lecturer at the Abdus Salam ICTP *Summer Colloquium on the Physics of Weather and Climate: The Effect of Topography on the Atmospheric Circulation*, Trieste, Italy, 8 - 26 June.
- 1998** Co-organizer and lecturer at START/APN *Workshop on Regional Climate Modeling*, Beijing, China, 23 - 27 November.
- 1999** Co-organizer and lecturer at the Abdus Salam ICTP *Summer Colloquium on the Physics of Weather and Climate: The Physics of Climate Change: a Regional Perspective*, Trieste, Italy, 7 - 25 June.
- 2000** Co-organizer and lecturer at the Abdus Salam ICTP *Summer Colloquium on the Physics of Weather and Climate: Chemistry-Climate Interactions*, Trieste, Italy, 29 May - 14 June.
- 2001** Lecturer at the Abdus Salam ICTP of a semester course on Geophysical Fluid Dynamics and Modeling.
- 2001** Co-organizer and lecturer at the Southern Africa Workshop on Regional Climate Modeling, University of Cape Town, South Africa, 22 January - 2 February.
- 2001** Co-organizer of the Abdus Salam ICTP *Advanced Course on Climate Change in the Mediterranean Region - Part I: Physical Aspects*, Trieste, Italy, 12 - 16 March.
- 2001** Co-organizer and lecturer at the Abdus Salam ICTP *Summer Colloquium on the Physics of Weather and Climate: Land-Atmosphere Interactions and the Hydrologic Cycle*, Trieste, Italy, 28 May - 15 June.
- 2001** Co-organizer of the Abdus Salam ICTP *Advanced Course on Climate Change in the Mediterranean Region - Part II: Socio-economic Aspects*, Trieste, Italy, 12 - 16 November.
- 2002** Co-organizer of the Abdus Salam ICTP *Spring Colloquium on Regional Weather Prediction Modeling and Predictability* Trieste, Italy, 8 - 19 April.
- 2002** Lecturer at the START/TWAS *Vulnerability and Adaptation Assessment Methods Training Course*, Trieste, Italy, 3-14 July.
- 2002** Co-organizer of the Abdus Salam ICTP *Second ICTP Conference on Detection and Modeling of Regional Climate Change*, Trieste, Italy, 30 September - 4 October.
- 2003** Co-organizer and lecturer at the Abdus Salam ICTP *Workshop on the Theory and Use of Regional Climate Models*, Trieste, Italy, 26 May - 6 June.
- 2003** Co-organizer and lecturer at the Abdus Salam ICTP *Seminar on Development and Application of Isotope Tracer Diagnostics in Regional Climate Models*, Trieste, Italy, 22-26 September.
- 2004** Co-organizer and lecturer at the APN *South Asia Workshop on Regional Climate modeling*, Islamabad, Pakistan, 16-27 February.
- 2004** Co-organizer and lecturer at the Abdus Salam ICTP *Second ICTP Workshop on the Theory and Use of Regional Climate Models*, Trieste, Italy, 31 May - 9 June.
- 2005** Lecturer at the *European Research Course on Atmospheres (ERCA 2005)*, Grenoble, France, 10 January - 11 February.
- 2005** Co-organizer of the Abdus Salam ICTP *Spring Colloquium on the Physics of Weather and Climate: Regional weather predictability and modeling*, Trieste, Italy, 11-22 April.

- 2005** Lecturer at the *First International Workshop on Climate Variability over Africa*, Alexandria, Egypt, 15-26 May.
- 2005** Lecturer at the APN *Regional Workshop on Climate Change Scenarios for South Asia*, Kathmandu, Nepal, 15-19 August.
- 2005** Lecturer at the *ISSAOS Summer School on Coupling Atmospheric and Hydrological Models*, L'Aquila, Italy, August 29 - September 2.
- 2005** Lecturer at the Abdus Salam ICTP *Soil Physics College*, ICTP, Trieste, Italy, 12-30 September.
- 2006** Co-organizer and lecturer at the *First ICTP West African workshop on Regional Climate Change and Impacts*, Accra, Ghana, 16-20 January.
- 2006** Lecturer at the *European Research Course on Atmospheres (ERCA 2006)*, Grenoble, France, 9 January - 11 February.
- 2006** Co-organizer and lecturer at the Abdus Salam ICTP *Third ICTP Workshop on the Theory and Use of Regional Climate Models*, Trieste, Italy, 29 May - 9 June.
- 2006** Lecturer at the International Seminar on Climate System and Climate Change (ISCS), Beijing, China, 17-28 July.
- 2006** Lecturer at the European Space Agency ENVISAT Summer School on "Earth system Monitoring and Modelling", ESA/ESRIN, Frascati, 31 July - 11 August.
- 2007** Lecturer at the *European Research Course on Atmospheres (ERCA 2007)*, Grenoble, France, 8 January - 9 February.
- 2007** Co-organizer and lecturer at the *Seventh Workshop on the Applicability of Environmental Physics and Meteorology in Africa (APEPMA). The representation of organized convection in climate models*, Gaborone, Botswana, 26 February - 2 March.
- 2007** Co-organizer and lecturer at the *Workshop on the Interdisciplinary Science of Global Climate Change* Buenos Aires, Argentina, 12 March - 4 April.
- 2007** Co-organizer of the *ICTP Conference and School on the Predictability of Natural Disasters for our Planet in Danger. A System View: Theory, Models, Data Analysis*, Trieste, Italy, 25 June - 6 July.
- 2007** Lecturer at the ECO Training Course on *Usage of Regional Climate Models for Weather-Related Natural Disaster Prediction*, Alanya, Turkey, 29 October - 2 November.
- 2007** Co-organizer and lecturer at the workshop *Interpreting climate change simulations. Capacity building for Developing Nations*, ICTP, Trieste, Italy, 26-30 November.
- 2008** Lecturer at the *European Research Course on Atmospheres (ERCA 2008)*, Grenoble, France, 10 January - 11 February.
- 2008** Co-organizer and lecturer at the Abdus Salam ICTP *Fourth ICTP Workshop on the Theory and Use of Regional Climate Models*, Trieste, Italy, 3-14 March.
- 2008** Co-organizer and lecturer at the Abdus Salam ICTP *Conference on African Drought: Observations, Modeling, Predictability, Impacts*, Trieste, Italy, 2-6 June 2008.
- 2008** Lecturer at the *Summer School on Climate Forcings and Global Patterns*, Istituto Veneto di Scienze, Lettere ed Arti, Venice, Italy, 13-20 June, 2008.
- 2009** Lecturer at the *European Research Course on Atmospheres (ERCA 2009)*, Grenoble, France, 9 January - 10 February.
- 2010** Lecturer at the *European Research Course on Atmospheres (ERCA 2010)*, Grenoble, France, 8 January - 9 February.
- 2010** Co-organizer and lecturer at the Abdus Salam ICTP *Fifth ICTP Workshop on the Theory and Use of Regional Climate Models*, Trieste, Italy, 31 May - 12 June.
- 2010** Lecturer at the *ISSAOS Summer School on Climate Change and Protected Areas* L'Aquila, Italy, 30 August - 3 September.
- 2010** Lecturer at the Abdus Salam ICTP *Soil Physics College*, ICTP, Trieste, Italy, 30 August - 10 September.
- 2010** Co-organizer and lecturer at the *International MedClivar-ICTP-ENEA Summer School on the Mediterranean Climate System and regional Climate Change*, ICTP, Trieste, 13-22 September.
- 2011** Lecturer at the *European Research Course on Atmospheres (ERCA 2011)*, Grenoble, France, 9 January - 10 February.
- 2011** Co-organizer and lecturer at the *Regional Climate Modeling Workshop*, Amman, Jordan, 13-17 march.

### CITATON STATISTICS (Based on the ISI Web of Science)

Included in the ISI Highly Cited Researcher list for Geosciences (top 0.5% cited scientists in Geosciences during the previous 20 years)

Over 10000 citations (over 5150 from first authored articles)

H-Index = 55

26 Scientific Publications with 100 or more citations (15 first authored)

60 Scientific Publications with 50 or more citations (34 first authored)

### PEER REVIEWED PUBLICATIONS

1. **Giorgi**, F., and W.L. Chameides, 1985: The rainout parameterization in a photochemical model. *Journal of Geophysical Research*, 90, 7872-7880.
2. **Giorgi**, F., 1986: A particle dry deposition parameterization scheme for use in tracer transport models. *Journal of Geophysical Research*, 91, 9794-9806.
3. **Giorgi**, F., and W.L. Chameides, 1986: Rainout lifetimes of highly soluble aerosols and gases as inferred from simulations with a general circulation model. *Journal of Geophysical Research*, 91, 14,367-14,376.
4. **Giorgi**, F., 1988: Dry deposition velocities of atmospheric aerosols as inferred by applying a particle dry deposition parameterization to a general circulation model. *Tellus B*, 40B, 23-41.
5. **Giorgi**, F., 1989: Two-dimensional simulations of possible mesoscale effects of nuclear war fires. I: Model description. *Journal of Geophysical Research*, 94, 1127-1144.
6. **Giorgi**, F., and G. Visconti, 1989: Two-dimensional simulations of possible mesoscale effects of nuclear war fires. II: Model Results. *Journal of Geophysical Research*, 94, 1145-1163.
7. Dickinson, R.E., R.M. Errico, F. **Giorgi**, and G.T. Bates, 1989: A regional climate model for the western United States. *Climatic Change*, 15, 383-422.
8. **Giorgi**, F., and G.T. Bates, 1989: The climatological skill of a regional model over complex terrain. *Monthly Weather Review*, 117, 2325-2347.
9. **Giorgi**, F., 1990: Sensitivity of wintertime precipitation and soil hydrology simulation over the western United States to lower boundary specifications. *Atmosphere-Ocean*, 28, 1-23.
10. **Giorgi**, F., 1990: Simulation of regional climate using a limited area model nested in a general circulation model. *Journal of Climate*, 3, 941-963.
11. **Giorgi**, F., M.R. Marinucci, and G. Visconti, 1990: Use of a limited area model nested in a general circulation model for regional climate simulation over Europe. *Journal of Geophysical Research*, 95, 18,413-18,431.
12. Pitman, A.J., F. **Giorgi**, and A. Henderson-Sellers, 1991: Southeast Australia's wintertime precipitation: Sensitivity of climatic predictions to model resolution. *Australian Meteorology Magazine*, 39, 21-35.
13. **Giorgi**, F., and L.O. Mearns, 1991: Approaches to regional climate change simulation: A review. *Reviews of Geophysics*, 29, 191-216.
14. **Giorgi**, F., 1991: Sensitivity of summertime precipitation over the western United States to model physics parameterizations. *Monthly Weather Review*, 119, 2870-2888.
15. Hostetler, S.W., and F. **Giorgi**, 1991: Use of a regional atmospheric model to simulate lake-atmosphere feedbacks associated with Pleistocene Lakes Lahontan and Bonneville. *Climate Dynamics*, 7, 39-44.
16. **Giorgi**, F., and M.R. Marinucci, 1991: Validation of a regional atmospheric model over Europe: Sensitivity of wintertime and summertime simulations to selected physics parameterizations and lower boundary conditions. *Quarterly Journal of the Royal Meteorological Society*, 117, 1171-1207.



17. Marinucci, M.R., and F. **Giorgi**, 1992: A 2XCO<sub>2</sub> climate change scenario over Europe generated using a limited area model nested in a general circulation model I: Present day climate simulation. *Journal of Geophysical Research*, 97, 9989-10009.
18. **Giorgi**, F., M.R. Marinucci, and G. Visconti, 1992: A 2XCO<sub>2</sub> climate change scenario over Europe generated using a limited area model nested in a general circulation model II: Climate change scenario. *Journal of Geophysical Research*, 97, 10011-10028.
19. **Giorgi**, F., G.T. Bates, and S.J. Nieman, 1992: Simulation of the arid climate of the southern Great Basin using a regional climate model. *Bulletin of the American Meteorological Society*, 73, 1807-1822.
20. **Giorgi**, F., G.T. Bates, and S. Nieman, 1993: The multi-year surface climatology of a regional atmospheric model over the western United States. *Journal of Climate*, 6, 75-95.
21. Ferretti, R., G. Visconti and F. **Giorgi**, 1993: Chemistry and transport of sulphur compounds from large oil fires studied with a 2-D mesoscale model. *Annales Geophysicae*, 11, 68-77.
22. Bates, G.T., F. **Giorgi** and S.W. Hostetler, 1993: Towards the simulation of the effects of the Great Lakes on regional climate. *Monthly Weather Review*, 121, 1373-1387.
23. Hostetler, S.W., G.T. Bates, and F. **Giorgi**, 1993: Interactive nesting of a lake thermal model within a regional climate model for climate change studies. *Journal of Geophysical Research*, 98, 5045-5057.
24. **Giorgi**, F., M.R. Marinucci, and G.T. Bates, 1993: Development of a second generation regional climate model (REGCM2). Part I: Boundary layer and radiative transfer processes. *Monthly Weather Review*, 121, 2794-2813.
25. **Giorgi**, F., M.R. Marinucci, G.T. Bates, and G. DeCanio, 1993: Development of a second generation regional climate model (REGCM2). Part II: Convective processes and assimilation of lateral boundary conditions. *Monthly Weather Review*, 121, 2814-2832.
26. Hostetler, S.W. and F. **Giorgi**, 1993: One-way coupling of landscape-scale hydrologic models with a regional climate model: An assessment. *Water Resources Research*, 29, 1685-1695.
27. **Giorgi**, F., S.W. Hostetler and C. Shields Brodeur, 1994: Analysis of the surface hydrology in a regional climate model. *Quarterly Journal of the Royal Meteorological Society*, 120, 161-184.
28. Hostetler, S.W., F. **Giorgi**, G.T. Bates and P.J. Bartlein, 1994: The role of lake-atmosphere feedbacks in sustaining paleolakes Bonneville and Lahontan 18,000 years ago. *Science*, 263, 665-668.
29. **Giorgi**, F., C. Shields Brodeur, and G.T. Bates, 1994: Regional climate change scenarios over the United States produced with a nested regional climate model. *Journal of Climate*, 7, 375-399.
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