

PERSONAL INFORMATION	Silvio Gualdi
	Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC) Viale Carlo Berti Pichat, 6/2, 40127 Bologna, Italy
	✉ silvio.gualdi@cmcc.it
	🌐 https://www.cmcc.it/it/people/gualdi-silvio

POSITION	Head of Division
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WORK EXPERIENCE	
2011-present	Head of Division Centro Euro-Mediterraneo sui Cambiamenti Climatici – CMCC, Bologna, Italy Heading the Division of Climate Simulations and Predictions, leading the production of climate predictions and climate change projections. Business or sector Scientific Research
2007-2011	Senior Scientist Centro Euro-Mediterraneo sui Cambiamenti Climatici - CMCC, Bologna, Italy Leader of the "Climate Variability and Climate Change" group Business or sector Scientific Research
2000-2021	Scientist Istituto Nazionale di Geofisica e Vulcanologia (INGV), Bologna, Italy Climate Simulations and Climate Variability Analysis - Head of Climate Variability Group Business or sector Scientific Research
1996-2000	Scientist Istituto per le Scienze dell'Atmosfera e dell'Oceano (ISAO-CNR), Bologna, Italy Climate simulations and climate variability analysis Business or sector Scientific Research
1992-1996	PhD-Student University of Hamburg – Tutor Dr. Prof. Hans von Storch Tropical Intraseasonal Variability in Observations and Climate Models Business or sector Scientific Research

EDUCATION TRAINING	
1999	PhD in Geophysics, University of Hamburg (Germany)

1989	MSC in Physics, University of Modena (Italy)
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PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

English

German

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	A2	A2	A1	A1	A1

L A1/2: Basic user - B1/2: Independent user - C1/2 Proficient users: A1/2: Basic user - B1/2: Independent user - C1/2 Common European Framework of Reference for Languages

**ADDITIONAL
INFORMATION**
Projects

Contribution to International Projects:

- IV EU Framework Program (FP) Project “SINTEX”, 1998 – 2001 (Task Leader);
- V EU-FP Project “DEMETER”, 2000 -2003 (INGV Principal Investigator);
- VI EU-FP Project “ENSEMBLES”, 2004-2009 (INGV Principal Investigator).
- VI EU-FP Project “MERSEA-IP”, 2004-2008 (Task Leader);
- VI EU-FP Project “CLARIS”, 2004-2007 (Task Leader);
- VI EU-FP Project “CIRCE”, 2007-2011 (Research Line leader);
- VII EU-FP Project “COMBINE”, 2009-2013 (co-leader of Work Package 6);
- VII EU-FP Project “CLIMRUN”, 2011-2014 (CMCC Principal Investigator);
- VII EU-FP “FUME”, 2010-2013 (Task Leader);
- VII EU-FP7 “CLIMAFRICA”, 2010-2014 (Task Leader);
- National Project “NextData”, 2012-2016 (CMCC Principal Investigator, WP leader);
- South East Europe Transnational Cooperation Programme Project “ORIENTGATE”, 2013-2015;
- Climate-KIC Project “WatenerCast”, 2015-2017 (CMCC Scientific Leader);
- H2020 “Primavera”, 2015-2020;
- H2020 “Climateurope”, 2016-2020 (CMCC Principal Investigator);
- H2020 “BlueHealth”, 2016-2020 (CMCC Principal Investigator);
- H2020 “ICARUS”, 2016-2020 (CMCC Principal Investigator);
- Copernicus C3S_433_Lot2 Tender on Pre-operational Seasonal Forecasts, 2016–2018, **Project Leader**;
- Copernicus C3S_422_Lot2 Tender on SIS European Tourism, 2017–2019, CMCC P.I.;
- H2020 “EUCP”, 2017-2021 (CMCC Principal Investigator);
- ERA4CS “MEDSCOPE: Climate Services for the Mediterranean Region” 2017–2021 **Project Leader**;
- Copernicus C3S_330 Tender on Operational Seasonal Forecasts, 2018–2021, **Project Leader**
- Copernicus C3S2_370 Tender on Operational Seasonal Forecasts, 2021–2025, **Project Leader**

 Professional
Activities and
Awards,

Awards and Professional Activities:

- 2001 October–December: Visiting Scientist at the University of Reading (UK);
- 2004–2008: Member of the Governing Board of the EU Project “MERSEA-IP”;
- 2006: Norbert Gerbier-MUMM International Award;
- 2007–present Member of the MedCLIVAR Programme;
- 2007–2011: Member of the Executive Board of the EU-FP Project “CIRCE”;
- 2008–present: Member of the International Scientific Steering Committee of HyMex (Hydrological Cycle in the Mediterranean Experiment);
- 2008–present: Member of the Faculty Board of the PhD Programme on “Science and Management of Climate Change”, University of Venice Ca’ Foscari;
- 2008–2011: Convener of the AW4 Session (“Large scale air-sea interaction processes and their influence on the Euro-Mediterranean climate”) at the Annual Meeting of the European Meteorological Society (EMS);
- 2011–present: Convener of the ASI5 (“Small and large scale air-sea interactions and coastal meteorology”) at the Annual Meeting of the European Meteorological Society (EMS);
- 2011–2013 Visiting Scientist at the University of Venice Ca’ Foscari;
- 2012–present: Member of the Executive Board of the National Project “NextData”;
- 2013–present: member of the MedCOF (Mediterranean Climate Outlook Forum) International Managing Board;
- 2015–present: Senior Editor of the Climate Science Oxford Research Encyclopaedias of the Oxford University Press;
- 2017–2021 President of the Società Italiana delle Scienze del Clima (SISC).

 List of Publications
WoS Hindex = 37

- 105** McAdam, R., S. Masina, M. Balmaseda, **S. Gualdi**, R. Senan and M. Mayer, 2022: Seasonal forecast skill of upper-ocean heat content in coupled high-resolution systems. *Clim Dyn* (2022). <https://doi.org/10.1007/s00382-021-06101-3>
- 104** Ruggieri, P., M. Benassi, S. Materia, D. Peano, C. Ardilouze, L. Batte and **S. Gualdi**, 2022: On the role of Eurasian autumn snow cover in dynamical seasonal predictions. *Clim Dyn* (2022). <https://doi.org/10.1007/s00382-021-06016-z>.
- 103** Reale M. and co-authors, 2021: Future projections of Mediterranean cyclone characteristics using the Med-CORDEX ensemble of coupled regional climate system models. *Clim. Dyn.* <https://doi.org/10.1007/s00382-021-06018-x>.
- 102** Conti, G., A. Aydogdu, **S. Gualdi**, A. Navarra, and J. Tribbia, 2021: On the physical nudging equations. *Clim. Dyna.*, DOI10.1007/s00382-021-05972-w.
- 101** Scoccimarro E, G. Villarini, **S. Gualdi** and A. Navarra, 2021: The Pacific Decadal Oscillation Modulates Tropical Cyclone Days on the Interannual Timescale in the North Pacific Ocean. *J. Geophys. Res.–Atmosphere*, 126, Article Number e2021JD034988 DOI10.1029/2021JD034988
- 100** Seidenglanz A., P. Athanasiadis, P. Ruggieri, I. Cvijanovic, C.M.L. Li, **S. Gualdi**, 2021: Pacific circulation response to eastern Arctic sea-ice reduction in seasonal forecast simulations. *Clim. Dyna.*, DOI10.1007/s00382-021-05830-9.
- 99** Materia S., C. Ardilouze, C. Prodhomme, M.G. Donat, M. Benassi, F.J. Doblas-Reyes, D. Peano, L.P. Caron, P. Ruggieri, and **S. Gualdi**, 2021: Summer temperature response to extreme soil water conditions in the Mediterranean transitional climate regime. *Clim. Dyna.*, DOI: 10.1007/s00382-021-05815-8.
- 98** Portal A., P. Ruggieri, F.M. Palmeiro, Froila, J. Garcia-Serrano, D.I.V. Domeisen, and **S. Gualdi**, 2021: Seasonal prediction of the boreal winter stratosphere *Clim. Dyna.*, DOI: <https://doi.org/10.1007/s00382-021-05787-9>.
- 97** Benassi M, G. Conti, **S. Gualdi** et al., 2021: El Nino teleconnection to the Euro-Mediterranean late-winter: the role of extratropical Pacific modulation *Clim. Dyna.*, DOI10.1007/s00382-021-05768-y.
- 96** Tebaldi, C., K. Debeire, V Eyring, ... **S Gualdi**, ... and co-authors, 2021: Climate model projections from the

- Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. *Earth Syst. Dynam.*, **12**, 253–293, <https://doi.org/10.5194/esd-12-253-2021>.
- 95** Bellucci A., P. J. Athanasiadis, E. Scoccimarro, P. Ruggieri, **S. Gualdi**, G. Fedele, R. J. Haarsma, J. Garcia-Serrano, M. Castrillo, D. Putrahasan, E. Sanchez-Gomez, M.-P. Moine, C. D. Roberts, M. J. Roberts, J. Seddon and P. L. Vidale, 2021: Air-Sea interaction over the Gulf Stream in an ensemble of HighResMIP present climate simulations. *Clim. Dyna.*, <https://doi.org/10.1007/s00382-020-05573-z>.
- 94** Ruggieri P, A Bellucci, D Nicoli, PJ Athanasiadis, **S Gualdi**, Silvio, C Cassou, F Castruccio, G D., Gokhan, P Davini, N Dunstone, R Eade, G Gastineau, B Harvey, L Hermanson, S Qasmi, Y Ruprich-Robert, E Sanchez-Gomez, D Smith, S Wild, Simon, M Zampieri, Matteo, 2021: Atlantic Multidecadal Variability and North Atlantic Jet: A Multimodel View from the Decadal Climate Prediction Project. *J. Climate*, **34**, 347–360. DOI: 10.1175/JCLI-D-19-0981.
- 93** Nicoli D., A. Bellucci, D. Iovino, P. Ruggieri and **S. Gualdi**, 2021: The impact of the AMV on Eurasian summer hydrological cycle. Scientific Report, 10, Article Number: 14444, <https://doi.org/10.1038/s41598-020-71464-2>.
- 92** Scoccimarro E., and **S. Gualdi**, 2020: Heavy Daily Precipitation Events in the CMIP6 Worst-Case Scenario: Projected Twenty-First-Century Changes. *J Climate*, **33**, 7631-7642. DOI: <https://doi.org/10.1175/JCLI-D-19-0940.1>.
- 91** Mezzina B., J. García-Serrano, I. Bladé, F. M. Palmeiro, L. Batté, C. Ardilouze, M. Benassi and **S. Gualdi**, 2020: Multi-model assessment of the late-winter extra-tropical response to El Niño and La Niña. *Clim. Dyna.*, <https://doi.org/10.1007/s00382-020-05415-y>.
- 90** Conte D., **S. Gualdi** and P. Lionello, 2020: Effect of Model Resolution on Intense and Extreme Precipitation in the Mediterranean Region. *Atmosphere*, **11**, 699; doi:10.3390/atmos11070699.
- 89** Ruggieri P., M. C. Alvarez-Castro, P. Athanasiadis, A. Bellucci, S. Materia and **S. Gualdi**, 2020: North Atlantic Circulation Regimes and Heat Transport by Synoptic Eddies. *J. Climate*, **33**, 4769–4785. DOI:10.1175/JCLI-D-19-0498.1 <https://doi.org/10.1175/JCLI-D-19-0498.1>.
- 88** Scoccimarro E., **S. Gualdi**, A. Bellucci, D. Peano, D. A. Cherchi, G.A. Vecchi, A. Navarra, 2020: The typhoon-induced drying of the Maritime Continent. *Proceedings of the National Academy of Sciences*, **117**, 3983–3988. DOI: 10.1073/pnas.1915364117.
- 87** Materia, S., Á.G. Muñoz, M.C. Álvarez-Castro, S.J. Mason, F. Vitart, and **S. Gualdi**, 2020: Multimodel Subseasonal Forecasts of Spring Cold Spells: Potential Value for the Hazelnut Agribusiness. *Wea. Forecasting*, **35**, 237–254, <https://doi.org/10.1175/WAF-D-19-0086.1>.
- 86** Peano D. S. Materia, A. Collalti, A. Alessandri, A. Anav, A. Bombelli, and **S. Gualdi**, 2020: Global Variability of Simulated and Observed Vegetation Growing Season. *J. Geophys. Res.: Biogeosciences*, **124**. <https://doi.org/10.1029/2018JG004881>.
- 85** Mc Shine ND, R.M. Clarke, **S. Gualdi**, A. Navarra, and X. T. Chadee, 2020: Influences of the Atlantic and Pacific Oceans on Rainy Season Precipitation for the Southernmost Caribbean Small Island State, Trinidad. *Atmosphere*, **10**, Article Number: 707, Doi: 10.3390/atmos10110707.
- 84** Torresan S., V. Gallina, **S. Gualdi**, D. Bellafiore, G. Umgiesser, S. Carniel, M. Sclavo, A. Benetazzo, E. Giubilato, and A. Critto, 2020: Assessment of Climate Change Impacts in the North Adriatic Coastal Area. Part I: A Multi-Model Chain for the Definition of Climate Change Hazard Scenarios. *Water*, **6**, Doi: 10.3390/w11061157
- 83** Jha P K., P. Athanasiadis, **S. Gualdi**, A. Trabucco, V. Mereu, V. Shelia and G. Hoogenboom, 2018: Evaluating the applicability of using daily forecasts from seasonal prediction systems (SPSs) for agriculture: a case study of Nepal's Terai with the NCEP CFSv2. *Theor Appl Climatol*, <https://doi.org/10.1007/s00704-018-2433-5>.
- 82** Jha P K., P. Athanasiadis, **S. Gualdi**, A. Trabucco, V. Mereu, V. Shelia and G. Hoogenboom, 2019: Using daily data from seasonal forecasts in dynamic crop models for yield prediction: A case study for rice in Nepal's Terai. *Agricultural and Forest Meteorology*, **265**, 349–358.
- 81** Cherchi A, Fogli PG, Lovato T, Peano D, Iovino D, **Gualdi S**, Masina S, Scoccimarro E, Materia S, Bellucci A, Navarra A (2018) Global mean climate and main patterns of variability in the CMCC-CM2 coupled model. *Journal of Advances in Modeling Earth Systems*, DOI: 10.1029/2018MS001369.
- 80** Scoccimarro E., A. Bellucci, A. Storto, **S. Gualdi**, S. Masina, and A. Navarra, 2018: Remote subsurface ocean temperature as a predictor of Atlantic hurricane activity. *Proceedings of the National Academy of Sciences*, **115** (45) 11460-11464; DOI: 10.1073/pnas.1810755115.
- 79** Mavilia I., A. Bellucci, P. J. Athanasiadis, **S. Gualdi**, R. Msadek, Y. Ruprich-Robert, 2018: On the spectral characteristics of the Atlantic multidecadal variability in an ensemble of multi-century simulations. *Clim. Dyn.*, **51**, 3507–3520. <https://doi.org/10.1007/s00382-018-4093-7>.
- 78** Dell'Aquila A., A. Mariotti, S. Bastin, S. Calmanti, L. Cavicchia, M. Deque, V. Djurdjevic, M. Dominguez, M. Gaertner and **S. Gualdi**, 2018: Evaluation of simulated decadal variations over the Euro-Mediterranean region from ENSEMBLES to Med-CORDEX. *Clim. Dyn.*, **51**, 857–876. <https://doi.org/10.1007/s00382-016-3143-2>.
- 77** Cavicchia L., E. Scoccimarro, **S. Gualdi**, P. Marson, B. Ahrens, S. Berthou, D. Conte, A. Dell'Aquila, P. Drobinski, V. Djurdjevic, C. Dubois, C. Gallardo, L. Li, P. Oddo, A. Sanna and C. Torma, 2018: Mediterranean extreme precipitation: a multi-model assessment. *Clim. Dyn.*, **51**, 901–913, DOI 10.1007/s00382-016-3245-x.
- 76** Tarek A., **S. Gualdi**, A. Lanza, 2018: A global degree days database for energy-related applications. *Energy*, **143**, 1048–1055.
- 75** Scoccimarro E., **S. Gualdi** and S. O. Krichak, 2018: Extreme precipitation events over north-western Europe: getting water from the Tropics. *Annals of Geophysics*, **61**, 4, OC449, 2018; doi: 10.4401/ag-7772.
- 74** Scoccimarro E., P. G. Fogli, **S. Gualdi**, 2017: The role of humidity in determining scenarios of perceived temperature extremes in Europe. *Environ. Res. Lett.*, **12**, Article Number: 114029, DOI: 10.1088/1748-9326/aa8cdd.
- 73** Bellucci A., A. Mariotti, A. and S. Gualdi, 2017: The Role of Forcings in the Twentieth-Century North Atlantic Multidecadal Variability: The 1940-75 North Atlantic Cooling Case Study. *J Climate*, **30**, 7317–7337.
- 72** Grellier J., M. P. White, M. Albin, S. Bell, L. R. Elliott, M. Gascon, **S. Gualdi**, L. Mancini, M. J. Nieuwenhuijsen,

- D. A. Sarigiannis, M. van den Bosch, T. Wolf, S. Wuijts, L. E. Fleming, 2017: BlueHealth: a study programme protocol for mapping and quantifying the potential benefits to public health and well-being from Europe's blue spaces. *BMJ OPEN*, **7**, Article Number: e016188 10.1136/bmjopen-2017-016188.
- 71** Miller A. J.; M. Collins, **S. Gualdi**, and co-authors, 2017: Coupled ocean-atmosphere modelling and predictions. *J. Marine Res.*, **75**, 361–402.
- 70** Zampieri M., A. Toreti, A. Schindler, E. Scoccimarro and **S. Gualdi**, 2017: Atlantic multi-decadal oscillation influence on weather regimes over Europe and the Mediterranean in spring and summer. *Glob. Plan. Change*, **151**, 92–100, DOI: 10.1016/j.gloPlacha.2016.08.01.
- 69** Athanasiadis, P.J., A. Bellucci, A. D. Scaife, L. Hermanson, S. Materia, A. Sanna, A. Borrelli, C. MacLachlan, and **S. Gualdi**, 2017: A Multisystem View of Wintertime NAO Seasonal Predictions. *J. Climate*, **30**, 1461–1475, DOI: 10.1175/JCLI-D-16-0153.1.
- 68** Scoccimarro E., P.G. Fogli, K. A. Reed, **S. Gualdi**, S. Masina, A. Navarra, 2017: Tropical Cyclone Interaction with the Ocean: The Role of High-Frequency (Subdaily) Coupled Processes. *J. Climate*, **30**, 145–162, DOI: 10.1175/JCLI-D-16-0292.1.
- 67** Zampieri M., S. Russo, S. di Sabatino, M. Michetti, E. Scoccimarro and **S. Gualdi**, 2016: Global assessment of heat wave magnitudes from 1901 to 2010 and implications for the river discharge of the Alps. *Sci Total Environ.*, **571**, 1330–1339.
- 66** Ruti P.M., S. Somot, F. Giorgi, C. Dubois, E. Flaounas, ..., **S. Gualdi**, ..., 2016: MED-CORDEX initiative for Mediterranean climate studies. *Bull. Amer. Meteo. Soc.*, **97**, 1187-1208.
- 65** Scoccimarro E., **S. Gualdi**, A. Bellucci, M. Zampieri, M., and A. Navarra, 2016: Heavy precipitation events over the Euro-Mediterranean region in a warmer climate: results from CMIP5 models. *Regional Environmental Change*, **16**, 595-602.
- 64** Krichak, S. O., S. B. Feldstein, P. Alpert, **S. Gualdi**, E. Scoccimarro and J.I Yano, 2016: Discussing the role of tropical and subtropical moisture sources in cold season extreme precipitation events in the Mediterranean region from a climate change perspective. *Nat Hazards Earth Sys. Sci.*, **16**, 269-285.
- 63** Scoccimarro, E., G. Villarini, M. Vichi, M. Zampieri, P. G. Fogli, A. Bellucci, and **S. Gualdi**, 2015: Projected Changes in Intense Precipitation over Europe at the Daily and Subdaily Time Scales. *J. Climate*, **28**, 6193-6203.
- 62** Krichak, Simon O., J. Barkan, J. S. Breitgand, **S. Gualdi**, S. B. Feldestein, 2015: The role of the export of tropical moisture into midlatitudes for extreme precipitation events in the Mediterranean region. *Theor Appl Climatol*, **121**, 499-515.
- 61** Schindler A., A. Toreti, M. Zampieri, E. Scoccimarro, **S. Gualdi**, S. Fukutome, E. Xoplaki and J. Luterbacher, 2015: On the Internal Variability of Simulated Daily Precipitation. *J. Climate*, **28**, 3124–3630.
- 60** Bellucci, A., R. Haarsma, **S. Gualdi**, P. Athanasiadis and co-workers, 2015: An assessment of a multi-model ensemble of decadal climate predictions. *Clim. Dyn.*, **44**, 2787–2806.
- 59** Zampieri, M., E. Scoccimarro, **S. Gualdi** and A. Navarra, 2015: Observed shift towards earlier spring discharge in the main Alpine rivers. *Sci Total Environ*, **503**, 222-232.
- 58** Athanasiadis P. J., A. Bellucci, L. Hermanson, A. A. Scaife, C. MacLachlan, A. Arribas, S. Materia, A. Borrelli and **S. Gualdi**, 2014: The representation of atmospheric blocking and the associated low-frequency variability in two seasonal prediction systems. *J. Climate*, **27**, 9082–9100.
- 57** Materia, S., A. Borrelli, A. Bellucci, A. Alessandri, P. Di Pietro, P. Athanasiadis, A. Navarra and **S. Gualdi**, 2014: Impact of atmosphere and surface initial conditions on seasonal forecast of global surface temperature. *J. Climate*, **27**, 9253–9271.
- 56** Cavicchia L., H. von Storch and **S. Gualdi**, 2014: Mediterranean Tropical-Like Cyclones in Present and Future Climate. *J. Climate*, **27**, 7493–7501.
- 55** Cavicchia L., H. von Storch and **S. Gualdi**, 2014: A long-term climatology of Medicanes. *Clim. Dyn.* DOI 10.1007/s00382-013-1893-7.
- 54** Krichak S. O., J. S. Breitgand, **S. Gualdi** and S. B. Feldstein, 2014: Teleconnection–extreme precipitation relationships over the Mediterranean region. *Theor Appl Climatol*, **117**, 679–692, DOI 10.1007/s00704-013-1036-4.
- 53** Drobinski P., Ducrocq V., Alpert P., Anagnostou E., Béranger K., Borga M., Braud I., Chanzy A., Davolio S., Delrieu G., Estournel C., Filali Boubrahmi N., Font J., Grubisic V., **Gualdi S.**, Homar V., Ivancan-Picek B., Kottmeier C., Kotroni V., Lagouvardos K., Lionello P., Llasat M. C., Ludwig W., Lutoff C., Mariotti A., Richard E., Romero R., Rotunno R., Roussot O., Ruin I., Somot S., Taupier-Letage I., Tintore J., Uijlenhoet R., Wernli L., 2014: HyMeX, a 10-year Multidisciplinary Program on the Mediterranean Water Cycle, *Bull. Amer. Meteo. Soc.*, **95**, 1063–1082, DOI: 10.1175/BAMS-D-12-00242.1.
- 52** Davini P., C. Cagnazzo, P.G. Fogli, E. Manzini, **S. Gualdi** and A. Navarra, 2014: European Blocking and Atlantic Jet Stream Variability in the NCEP/NCAR Reanalysis and the CMCC-CMS climate model. *Clim. Dyn.* **43**, 71–85, DOI 10.1007/s00382-013-1873-y.
- 51** Scoccimarro E., **S. Gualdi**, G. Villarini, G. Vecchi, M. Zhao, K. Walsh, A. Navarra, 2014: Intense precipitation events associated with landfalling tropical cyclones in response to a warmer climate and increased CO₂. *J. Climate*, **27**, 4642–654, doi: 10.1175/JCLI-D-14-00065.1.
- 50** Fattore F, T. Bertolini, S. Materia, S. Gualdi, A. T. M'Bou, G. Nicolini, R. Valentini, A. De Grandcourt, D. Tedesco, S. Castaldi, 2014: Seasonal trends of dry and bulk concentration of nitrogen compounds over a rain forest in Ghana. *BIOGEOSCIENCES*, **11**, 3069–3081, ISSN: 1726–4170, doi: 10.5194/bg-11-3069-2014.
- 49** Baruffi F, Bisaglia M, Cappelletto M, Pasini S, Galli A, Marsala V, Scarinci A, Panelli C, **Gualdi S**, Zandonella, 2013: Groundwater storage in adaptation to climate change. *Water Management*, **166**, 488–500, ISSN: 1741-7589, doi: 10.1680/wama.11.00096.
- 48** Scoccimarro E., **S. Gualdi**, A. Bellucci, M. Zampieri, A. Navarra, 2013: Heavy precipitation events in a warmer climate: results from CMIP5 models. *J Climate*, **26**, 7902–7911.
- 47** Toreti, A. P. Naveau, M. Zampieri, A. Schindler, E. Scoccimarro, E. Xoplaki, H. A. Dijkstra, **S. Gualdi** and J.

- Luterbacher, 2013: Projections of global changes in precipitation extremes from Coupled Model Intercomparison Project Phase 5 models. *Geophys. Res. Lett.*, **40**, 4887–4892, doi:10.1002/grl.50940, 2013.
- 46** Villarini G., E. Scoccimarro and **S. Gualdi**, 2013: Projections of Heavy Rainfall over the Central US based on CMIP5 Models. *Atm. Sci. Lett.*, **14**, 200–205.
- 45** Zampieri M., E. Scoccimarro and **S. Gualdi**, 2013: Atlantic influence on spring snowfall over the Alps in the past 150 years. *Environ. Res. Lett.*, **8**, 034026, doi:10.1088/1748-9326/8/3/034026.
- 44** Bucchignani E., A. Sanna, **S. Gualdi**, S. Castellari and P. Schiano, 2013: Simulation of the climate of the XX century in the Alpine space. *Nat. Hazards*, DOI: 10.1007/s11069-011-9883-8.
- 43** Bellucci A., **S. Gualdi**, S. Masina, A. Storto, E. Scoccimarro, C. Cagnazzo, P. Fogli, E. Manzini, and A. Navarra, 2013: Decadal Climate Predictions with a coupled OAGCM initialized with oceanic reanalyses. *Clim. Dyn.*, **40**, 1483–1497, DOI: 10.1007/s00382-012-1468-z.
- 42** Sanna A., P. Lionello and **S. Gualdi**, 2013: Coupled atmosphere ocean climate model simulations in the Mediterranean region: effect of a high-resolution marine model on cyclones and precipitation. *Nat. Hazards Earth Sys. Sci.*, **13**, 1567-1577 DOI: 10.5194/nhess-13-1567-2013.
- 41** **Gualdi S.**, S. Somot, L. Li, V. Artale, M. Adani, A. Bellucci, A. Braun, S. Calmanti, A. Carillo, A. Dell'Aquila, M. Déqué, C. Dubois, A. Elizalde, A. Harzallah, D. Jacob, B. L'Hévéder, W. May, P. Oddo, P. Ruti, A. Sanna, G. Sannino, E. Scoccimarro, F. Sevault, A. Navarra, 2013: The CIRCE simulations: a new set of regional climate change projections performed with a realistic representation of the Mediterranean Sea. *Bull. Amer. Meteor. Soc.*, **94**, 65–81, DOI: 10.1175/BAMS-D-11-00136.1.
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Tutoring Activities

- **2019 – present**, Tutor of the PhD Thesis in “Science and Management of Climate Change”, University of Venice Ca' Foscari: “Predictability and predictions of extreme events in East Asia”. Candidate: Yucong Li
- **2018 – present**, Tutor of the PhD Thesis in “Science and Management of Climate Change”, University of Venice Ca' Foscari: “Implementation and evaluation of new gravity wave drag and surface friction parameterization schemes in the CAM5 model”. Candidate: Guido Davoli;
- **2018 – present**, Co-tutor of the PhD Thesis in “Science and Management of Climate Change”, University of Venice Ca' Foscari: “Heat events in the Indian Subcontinent: Detection, Seasonal Prediction and Impacts on Human Health”. Candidate: Ritika Kapoor;
- **2015–2018**: Co-tutor of the PhD Thesis in “Science and Management of Climate Change”, University of Venice Ca' Foscari: “Impact of reduced sea–ice conditions in the Barents – Kara seas on wintertime atmospheric circulation in the Euro – Atlantic sector”. Candidate: Anne Seidenglanz;
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- **2013–2016**: Co-tutor of the PhD Thesis in “Science and Management of Climate Change”, University of Venice Ca' Foscari: “Using seasonal climate forecasts to predict rice yield over Nepal's Terai”. Candidate: Prakash Kumar Jha;
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Bologna, 28 febbraio 2022

In fede,
Silvio Gualdi