

Prof. Dr. Alberto Troccoli

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Nationalities	Italian, British & Australian
Family status	Married, 3 children

SUMMARY PROFILE

Alberto Troccoli provides strong worldwide leadership in the application of weather and climate information for society, particularly for the energy sector. Alberto has also been making marked contributions to various climate-related scientific fields including data assimilation in oceanography, seasonal predictions and the interaction between weather & climate and energy as book editor (three Springer books as chief, or sole, editor), conference/event convener and journal publications author. Alberto's key skills are: strategic planning, project leading and management, scientific analysis and capacity building. Alberto holds a PhD from the University of Edinburgh (UK). More information at: <http://www.albertotroccoli.org>

EDUCATION

2000	The University of Edinburgh, UK PhD in Physical Oceanography
1996	University of Padova, Italy Laurea in Physics
1994-1995	The University of Edinburgh, UK Fourth year Physics on an exchange program (Erasmus)

EXECUTIVE EDUCATION

2014	The University of Melbourne, Melbourne Business School-Mt Eliza, Australia Leading for Organisational Impact: the Looking Glass Experience (5-day program)
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PROFESSIONAL EXPERIENCE

2015-now	World Energy & Meteorology Council (WEMC), UK – Co-Founder and Managing Director
2015-now	University of East Anglia (UEA), UK – Visiting Professor Copernicus Climate Change Service <i>European Climatic Energy Mixes</i> (ECEM) Leader Leader of a EU H2020 Climate Service for Energy Project (due to start late 2017)
2009-2015	Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia Covered many roles of increasing seniority, including: Leader, Earth Assessment Group (ca. 25 people); Head, Weather & Energy Research Unit (ca. 5 people); Director, Australian Solar Energy Forecasting System project; Portfolio (stream) leader. During my tenure, I was also promoted from Research Scientist to Principal Research Scientist.
2008-2009	University of Reading, UK – Senior Research Fellow
2008	CMCC, Bologna, Italy – Head, Seasonal climate forecasting section
2007-now	Climate-Insight, UK – Founder and co-ordinator of a network of consultants
2002-2008	European Centre for Medium-Range Weather Forecasts (ECMWF), UK Research scientist in the seasonal forecasting section. Main technical achievements: led work on coupling new high-res ocean model with atmospheric model and tested weather forecasts; set up and performed first decadal climate runs using ECMWF system.
2000-2002	NASA/UMBC, Goddard Space Flight Center, USA Assistant Research Scientist in the Seasonal-to-Interannual Prediction Project
2000	University of Padova, Italy – Research Assistant
1999-2000	ECMWF, UK – Research Scientist in the Seasonal Forecasting Section
1989-1990	Italian Air Force, Italy – Officer (S. Lieutenant), Deputy head of the Telecom. section

CAREER HIGHLIGHTS (CHRONOLOGICAL ORDER)

- 2017 **Awarded funding for a EU project on Climate Services for the Energy and Water sectors**
Led proposal preparation and leader of this 42-month EU H2020 project starting in late 2017.
- 2015-now **Leader of a EU Copernicus Climate Change Service**
Instigator and leader of the [European Climatic Energy Mixes](#) (ECEM) climate service, which has been developing a very well received [Climate and Energy demonstrator](#).
- 2014-15 **Lead author of the UN's Global Framework for Climate Services (GFCS) [Energy Exemplar](#)**
Designed and authored the roadmap to implement the UN's GFCS for the energy sector.
- 2014-now **Founder and Managing Director of the World Energy & Meteorology Council (WEMC)**
Established and directing the non-profit organisation WEMC devoted to promoting and enhancing the interaction energy industry–meteorological community for an improved sustainability, resilience and efficiency of energy systems under ever changing weather and climate.
- 2007-now **Founder and Co-ordinator of Climate-Insight (C-I, formerly Climate-Development)**
C-I is a network of consultants, with expertise in climate science, development and policy.
- 2002-now **Invited as speaker at many events, e.g.** (see also 'Recent Invited Talks/Lectures'):
- Invited expert at WMO Congress, Switzerland (2015)
 - Guest speaker at the World Meteorological Day, Switzerland (2015)
 - Plenary speaker at the World Weather Open Science Conference, Canada (2014)
 - Lead speaker at a World Bank event 'Climate Impacts on Energy', Brazil (2014)
 - Plenary speaker at the APEC Climate Symposium, Hawaii (2011)
- 2014 **Appointed director of the "Australian Solar Energy Forecasting System" project**
- 2011-now **Initiator and Director of the [International Conference Energy & Meteorology \(ICEM\)](#) series**
Convenor and director of four very well received ICEMs: 1st ICEM, Gold Coast, Australia, 8–11 Nov 2011; 2nd ICEM, Toulouse, France, 25-28 Jun 2013; 3rd ICEM, Boulder, USA, 22-26 Jun 2015; 4th ICEM, Bari, Italy, 26-29 Jun 2017: <http://www.wemcouncil.org/wp/conferences/>
- 2009-14 **Established an urban solar radiation and power measurement network**
Led the set-up of a city-wide observational network in Canberra for solar radiation, PV solar power and other meteorological variables (<http://weru.csiro.au>).
- 2008-14 **Editor of four books**
Chief editor and author of books "[Seasonal Climate: Forecasting and Managing Risk](#)" (2008) and "[Management of Weather and Climate Risk in the Energy Industry](#)" (2010), "[Weather Matters for Energy](#)" (2014), "[Weather and Climate Services for the Energy Industry](#)" (2017).
- 2009-13 **Member of the Expert Panel in a World Bank Program**
Invited member of the expert panel on Energy and Climate of the World Bank's Energy Sector Management Assistance Program (ESMAP) World Bank.
- 2011 **Awarded funding for two major projects**
The Australian Renewable Energy Agency (ARENA) co-funded project "Integrated Solar Radiation Data Sources over Australia", and the Australian Department of Foreign Affairs and Trade (DFAT) co-funded capacity building activity "Harnessing improved weather and climate information for renewable energy generation" with India.
- 2011 **The two papers "Storm surge frequency reduction in Venice under climate change" and "Long-term wind speed trends over Australia" received extensive media attention**
Several interviews by television (ABC breakfast), radio (ABC national and regional, SBS), press agency (Reuters), newspapers (The Australian, Adelaide Now) and magazines (Nature Climate Change, New Scientist, The Australasian Science Magazine, Recharge).
- 2010 **Contributor to a World Bank Publication**
Substantially contributed to the World Bank publication "[Climate Impacts on Energy Systems: Key Issues for Energy Sector Adaptation](#)" (Ebinger and Vergara eds, 2011).
- 2009 **Invited to write a review paper on Seasonal Climate Forecasting** (see Publications)
- 2008 **Initiator and Director of a NATO Advanced Research Workshop**
Initiated, planned and directed the 1-week Workshop "[Weather/Climate Risk Management for the Energy Sector](#)" with ca 30 participants.
- 2008 **Invited lecturer at the Istituto Veneto di Scienze, Lettere ed Arti Int^l Summer School**
- 2005 **Initiator and Director of a NATO Advanced Study Institute (a Summer School)**
Initiated, planned and directed the 2-week summer school "[Seasonal to Interannual Climate Variability: its Prediction and Impact on Society](#)" with ca 80 participants (incl. 15 lecturers).
- 1999 **Contracted by the European Centre for Medium-Range Weather Forecasts, UK**
I implemented a scheme I had developed during my PhD into the ECMWF forecast system.

SPECIFIC SCIENTIFIC ACTIVITIES

PROFESSIONAL CONSULTANCIES

- 2016 Main author of a Green Climate Fund concept note and funding proposal on Global Climate Services for Energy; work commissioned by World Meteorological Organization (WMO)
- 2015 Main author of the UN's GFCS Energy Exemplar (Implementation Roadmap)
- 2014 Provision of modelled solar data to a solar power developer (negotiation and project leader)
- 2013-14 Multiple provisions of observed solar data from WERU's solar stations to solar power developers (supervision as portfolio leader)
- 2012 Provision of modelled wind data to the Australian Energy Market Operator (negotiation and project leader)
- 2010 World Bank white paper identifying key issues for energy sector adaptation
Contract negotiation for a team and key contributor in several chapters of the white paper
- 2009 Study for a private firm "Precipitation Forecasts and Climate Scenarios"
Prepared competitive proposal, negotiated contract and reviewed final document
- 2007-8 Reviewer of the proposal for the Framework Programme commissioned by African Union, African Development Bank and UN Economic Commission for Africa and contributed to the preparation of a synthetic version of the document

PROJECTS AND INTERNATIONAL COLLABORATIONS

- 2017-now Awarded funding for a EU H2020 ca €5 million project "The Added Value of Seasonal Climate Forecasts for Integrated Risk Management Decisions" as project leader.
- 2015-now Leader of the EU Copernicus €1.6 million Climate Service "European Climatic Energy Mixes".
- 2014-15 Leader of the Australian Renewable Energy Agency (ARENA) co-funded A\$7.5 million project "Australian Solar Energy Forecasting System"
- 2012-15 Leader of the Australian Renewable Energy Agency (ARENA) co-funded A\$ 1.4 million project "Integrated Solar Radiation Data Sources over Australia"
- 2009-15 Portfolio leader for a solar monitoring project, with equipment for irradiance (including its spectrum), clouds (ceilometer and sky cameras), other weather variables and solar power produced by PV panels at one location as well as several lower quality instruments around Canberra
- 2012-13 Leader of the Game Changer co-funded project "Solar Rain"
- 2012-15 Member of the International Energy Agency Task "Solar Resource Assessment and Forecasting"
- 2010-14 Partner in the EU COST Action "Weather Intelligence for Renewable Energy"
- 2012-14 Leader of the Australian DFAT co-funded 18-month capacity building activity "Harnessing improved weather and climate information for renewable energy generation" with India
- 2009-14 Leader of the CSIRO Weather and Renewable Energy programme
- 2009-10 Managed CSIRO component of project Australian Wind Energy Forecasting System follow-up
- 2004-07 Planned and managed ECMWF contribution to the EU-FP6 project MERSEA, including leading a team of partners

CONVENER AND DIRECTOR OF

- 2017 Fourth stakeholder workshop of "European Climatic Energy Mixes", Bari, Italy.
- 2017 The 4th International Conference Energy & Meteorology, Bari, Italy (3 days) and 1/2-day pre-conference seminar (<http://www.wemcouncil.org/wp/icem2017/>).
- 2017 Third stakeholder workshop of "European Climatic Energy Mixes", in the form of Symposium for Climate Services for Energy, in co-operation with CLIM4ENERGY project, Barcelona, Spain.
- 2016 Second stakeholder workshop of "European Climatic Energy Mixes", London, France.
- 2016 First stakeholder workshop of "European Climatic Energy Mixes", Paris, France.
- 2015 A stakeholder workshop "Solar Forecasting & Storage", Melbourne, Australia.
- 2015 The 3rd International Conference Energy & Meteorology, Boulder, CO, USA (4 days) and 1-day pre-conference seminar.
- 2014 A 3-day workshop "Assessment, Modelling and Applications of Renewable Energy (AMARE): Towards 100% Renewable Energy", Hyderabad, India (with Prashant Goswami, CSIR, India)
- 2014 A science day "Solar Resource Assessment and Forecasting", Sydney, Australia
- 2014 A stakeholder workshop "Integrated Solar Radiation Dataset for Australia", Sydney, Australia
- 2013 The 2nd International Conference Energy & Meteorology, Toulouse, France (4 days) and 1-day pre-conference seminar.
- 2013 A 1-day CSIRO workshop "Solar Resource Assessment and Forecasting", Canberra, Australia
- 2013 A 10-day training workshop "Harnessing improved weather and climate information for renewable energy generation", Bangalore, India (with Prashant Goswami, CSIR, India)
- 2012 A stakeholder workshop "Integrated Solar Radiation Dataset for Australia", Sydney, Australia

2012	A CSIRO inter-division workshop “Energy & Meteorology”, Newcastle, Australia
2011	The Inaugural International Conference Energy & Meteorology, Gold Coast, Australia (4 days) and 1-day pre-conference seminar.
2011	A Climate and Energy Workshop at the APEC Climate Symposium, Hawaii (USA) [invited]
2010	A 1-day research workshop “Exploiting weather information to improve solar energy supply estimation”, Canberra, Australia
2008-09	A session at the European Meteorological Society Conference [invited co-convener]
2008	A 5-day NATO Workshop “Weather/Climate Risk Management for the Energy Sector”
2005-08	Three National meetings of the Royal Meteorological Society (UK) “ <i>Perfecting imperfect models</i> ” (2005), “Forecasting UK and European winters” (2006) and “ <i>Towards a seamless system: Bridging the gap between the weather, climate and the development communities</i> ” (2008)
2005	A 2-week NATO Summer School “Seasonal to Interannual Climate Variability: its Prediction and Impact on Society”

PAPER AND PROPOSAL REVIEWS

Reviewer of many project proposals for: 1) the USA National Science Foundation (ESF), 2) the USA National Oceanic and Atmospheric Administration (NOAA), 3) the USA National Aeronautics and Space Administration (NASA), 4) the Italian Evaluation of Research Quality 2004-2010, 5) the UK Natural Environment Research Council (NERC), 6) the Belmont Forum, 7) the EU European Research Area for Climate Services (ERA4CS) and 8) the Research Council of Norway.

Reviewer of articles in: 1) *Advances in Science and Research*, 2) *Atmospheric Research*, 3) *Atmospheric Science Letters*, 4) *Australian Meteorological and Oceanographic Journal*, 5) *Boreal Environment Research*, 6) *Climate Dynamics*, 7) *Climate of the Past Discussions*, 8) *Climatic Change*, 9) *Energies*, 10) *Energy Conversion and Management*, 11) *Environmental Research Letters*, 12) *EOS*, 13) *Geophysical Research Letters*, 14) *IEEE Transactions on Smart Grid*, 15) *International Journal of Climatology*, 16) *Journal of Applied Meteorology and Climatology*, 17) *Journal of Climate*, 18) *Journal of Geophysical Research* (both Oceans and Atmosphere), 19) *Journal of Marine Systems*, 20) *Meteorological Applications*, 21) *Monthly Weather Review*, 22) *Nature Climate Change*, 23) *Ocean Modelling*, 24) *Ocean Science Discussions*, 25) *Philosophical Transactions of the Royal Society*, 26) *Quarterly Journal of the Royal Meteorological Society*, 27) *Solar Energy*, 28) *Theoretical and Applied Climatology*.

Also reviewed World Bank and Asian Development Bank reports, and Elsevier book proposals.

OTHER SCIENTIFIC COMMUNITY SERVICES

2014-15	Vice-Chair (Solar Forecasting) for Global Energy Forecasting Competition 2014
2014-15	Chair of Advisory Committee of Australian Wave Energy Atlas (AWavEA) project
2014	Invited by the World Meteorological Organisation to attend meeting on the formation of the Energy exemplar for the GFCS and to contribute to its formulation: prepared concept note for submission to the International Board of Climate Services
2014	Contributor to the Australian Government Environmental Information Advisory Group (AG EIAG) for the area Renewable Energy Options Under Future Climates
2012-13	Guest editor of a special issue of the Solar Energy journal
2010	Invited editor for papers of the Solar2010 Conference of the Australian Solar Energy Society
2009	Invited co-chair for working group on ‘Adaptation for Inland Systems’ at “Climate Change: Global Change and Local Adaptation”, NATO Workshop, Hella, Iceland
2004-07	Co-founded the Royal Meteorological Society (RMetS, UK) specialist group on data assimilation
2004-07	Member of the meetings committee of the RMetS

MENTORING

2017-	[Sep 2017 start] PhD student at Leeds University (CASE Supervisor, with WEMC)
2016	Four-month internship at WEMC
2015	Five students for a term project (with University of Canberra)
2014-now	PhD student at UNSW (‘industrial’ supervisor)
2012-15	PhD student at CSIRO (with UNSW)
2012-13	One-year intern at CSIRO
2012	Summer student at CSIRO (with Exemplary Energy)
2011	One-year intern at CSIRO
2010-11	Two summer students at CSIRO
2009-10	Summer student at CSIRO
2009	Masters student at Reading University (with University of Padova)
2001	Summer internship at NASA

EDUCATION OUTREACH

- 2009-14 Initiated and managed a solar school programme, with weather and solar power monitoring at select schools in Canberra, Australia
- 2011 Lecture “The climate debate: basic science and possible actions” for Year 6 students at Radford College (Canberra, Aus) and for Year 5 & 6 students at Weetangera Primary (Canberra, Aus)

MEDIA

Interviews for many TV and radio programmes such as ABC, SBS, RAI, New Scientist, Reuters. A few examples are available here with links to recordings (others are available on request):

- [TV interview \(live\) on Australian national ABC](#) on wind speed trend paper (Troccoli et al., 2012)
- [Radio interview \(live\) on Australian national ABC](#) on wind speed trend paper (Troccoli et al., 2012)
- [TV news piece \(recorded\) for ABC regional](#) on our solar monitoring work at a school in Canberra (2012)
- [Radio interview \(recorded\) on Australian national SBS](#) on impact of solar farms on climate (2013)

OTHER WORK RELATED ACTIVITIES/AWARDS

- 2000 Assistant lecturer for a physics degree module at the University of Padova (Italy)
- 2000 *Outstanding student paper* award of the American Geophysical Union
For presenting my PhD work as well as research executed by a more senior colleague.
- 1997-9 Laboratory demonstrator and marking at the University of Edinburgh
- 1997 PhD Scholarship. Offered a scholarship to cover fees and maintenance for my PhD studies at the University of Edinburgh (UK). Also had a similar offer from Imperial College, London, UK.
- 1996 Awarded a quality prize by the University of Padova for didactic results during exchange programme in at the University of Edinburgh

PUBLICATIONS

BOOK EDITOR

- Troccoli A, ed (2017) “Weather and Climate Services for the Energy Industry”, Palgrave Pivot series, to appear late 2017 (ca 150 pp, 15 authors).
- Troccoli A, Dubus L and Haupt SE, eds (2014) “Weather Matters for Energy”, Springer Academic Publisher, 528 pp.
- Troccoli A, ed (2010) “Management of Weather and Climate Risk in the Energy Industry”, NATO Science Series, Springer Academic Publisher, 344 pp.
- Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds (2008) “Seasonal Climate: Forecasting and Managing Risk”, NATO Science Series, Springer Academic Publishers, 467 pp.

BOOK CHAPTERS

- Troccoli A (2017) “Achieving Valuable Weather and Climate Services” in: “Weather and Climate Services for the Energy Industry”, Troccoli A, ed, Palgrave, to appear late 2017.
- Dubus L, Muralidharan S and Troccoli A (2017) “What does the Energy Industry Require from Meteorology?” in: “Weather and Climate Services for the Energy Industry”, Troccoli A, ed, Palgrave, to appear late 2017.
- Troccoli A, Soares MB, Dubus L, Haupt SE, Boulahya MS and Dorling S (2017) “Forging a dialogue between the energy industry and the meteorological community” in: “Weather and Climate Services for the Energy Industry”, Troccoli A, ed, Palgrave, to appear late 2017.
- Dubus L, Troccoli A, Haupt SE, Boulahya MS and Dorling S (2017) “Lessons learned establishing a dialogue between the energy industry and the meteorological community and a way forward” in: “Weather and Climate Services for the Energy Industry”, Troccoli A, ed, Palgrave, to appear late 2017.
- Goswami P, A Troccoli A, Neppolian B, Gunasekera D, Gouda KC, Ramesh KV, Rakesh V and Sasidharan M (2016) “Climate Resilient Economy: Low Carbon Roadmaps and Strategies to Achieve 100% Renewables: A case for India” in: “Climate Resilient Pathways – Achieving Low Carbon, Resilient and Prosperous Economies”, Baldwin K, Raupach M, Lindsay J, Hussey K and Smith M, eds, Cambridge University Press, to appear late 2017.
- Ronalds B, Wonhas A and Troccoli A (2014) “A new era for Energy” in: “Weather Matters for Energy”, Troccoli A, Dubus L and Haupt SE, eds, Springer Academic Publishers, 3-16.
- Troccoli A (2014) “Climatic changes: looking back, looking forward” in: “Weather Matters for Energy”, Troccoli A, Dubus L and Haupt SE, eds, Springer Academic Publishers, 65-90.

- Gunasekera D, Troccoli A and Boulahya M (2014) “Energy & Meteorology: Partnership for the future” in: “Weather Matters for Energy”, Troccoli A, Dubus L and Haupt SE, eds, Springer Academic Publishers, 497-512.
- Lambert JH, Troccoli A, White KD, Karl H, Yumagulova L and Sterin A (2011) “Adaptation of Inland Systems to Climate Change with Challenges and Opportunities for Physical, Social, and Engineering Disciplines”, in: “Climate Change Adaptation”, Linkov I and Bridges TS, eds, Springer Academic Publishers, 479-490.
- Troccoli A (2010) “Weather and Climate Predictions for the Energy Sector”, in: “Management of Weather and Climate Risk in the Energy Industry”, Troccoli A, ed, NATO Science Series, Springer Academic Publishers, 25-37.
- Harrison M and Troccoli A (2010) “Data Headaches”, in: “Management of Weather and Climate Risk in the Energy Industry”, Troccoli A, ed, NATO Science Series, Springer Academic Publishers, 137-147.
- Troccoli A et al. (2010) “Weather/Climate Risk Management For The Energy Sector: Workshop Recommendations”, in: “Management of Weather and Climate Risk in the Energy Industry”, Troccoli A, ed, NATO Science Series, Springer Academic Publishers, 327-332.
- Harrison M, Troccoli A, Anderson DLT and Mason SJ (2008) “Introduction”, in: “Seasonal Climate: Forecasting and Managing Risk”, Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds, NATO Science Series, Springer Academic Publishers, 3-12.
- Harrison M, Troccoli A, Williams JB and Coughlan M (2008) “Seasonal Forecasts in Decision Making”, in: “Seasonal Climate: Forecasting and Managing Risk”, Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds, NATO Science Series, Springer Academic Publishers, 13-42.
- Tribbia J and Troccoli A (2008) “Getting the coupled model ready at the starting blocks”, in: “Seasonal Climate: Forecasting and Managing Risk”, Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds, NATO Science Series, Springer Academic Publishers, 91-126.
- Harrison M, Troccoli A, Anderson DLT, Mason SJ, Coughlan M and Williams JB (2008) “A way forward for seasonal climate services”, in: “Seasonal Climate: Forecasting and Managing Risk”, Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds, NATO Science Series, Springer Academic Publishers, 399-410.

PEER REVIEWED ARTICLES

- Jones PD, Harpham C, Troccoli A, Gschwind B, Ranchin T, Wald L, Goodess CM and Dorling S (2017). Using ERA-Interim Reanalysis output for creating datasets of energy-relevant climate variables. *Earth System Science Data Discussions*, 9, pp. 471-495, DOI: [10.5194/essd-9-471-2017](https://doi.org/10.5194/essd-9-471-2017)
- Nguyen KC, Katzfey JJ, Riedl J and Troccoli A (2017) “Potential impacts of solar arrays on regional climate and on array efficiency”. *Int. J. Climatology*. DOI: [10.1002/joc.4995](https://doi.org/10.1002/joc.4995)
- Perry M and Troccoli A (2016) “An approach for generating synthetic fine temporal resolution solar radiation time series from hourly gridded datasets”. *Met Zet*. DOI: [10.1127/metz/2016/0746](https://doi.org/10.1127/metz/2016/0746)
- Davy RJ, Huang J and Troccoli A (2016) “Improving the accuracy of hourly satellite-derived solar irradiance by combining with dynamically-downscaled estimates using generalised additive models”. *Solar Energy*, 135, 854-863, DOI: [10.1016/j.solener.2016.06.052](https://doi.org/10.1016/j.solener.2016.06.052).
- Chen Z and Troccoli A (2016) “Urban solar irradiance and power prediction from nearby stations”. *Met Zet*. DOI: [10.1127/metz/2016/0725](https://doi.org/10.1127/metz/2016/0725)
- Polo J, Wilbert S, Ruiz-Arias JA, Meyer R, Gueymard C, Sùri M, Martín L, Mieslinger T, Blanc P, Grant I, Boland J, Ineichen P, Remund J, Escobar R, Troccoli A, Sengupta M, Nielsen KP, Renne D, Geuder N and Cebecauer T (2016) “Review on site-adaptation techniques for satellite-derived and reanalysis solar radiation datasets”. *Solar Energy*. In press.
- Perry M and Troccoli A (2015) “Impact of a fire burn on solar irradiance and PV power”. *Solar Energy*, 114, 167-173, doi: [10.1016/j.solener.2015.01.005](https://doi.org/10.1016/j.solener.2015.01.005).
- Davy R and Troccoli A (2014) “Continental-scale spatial optimisation of a solar irradiance monitoring network”. *Solar Energy*, 109, 36–44, doi: [10.1016/j.solener.2014.08.026](https://doi.org/10.1016/j.solener.2014.08.026)
- Troccoli A and Morcrette J-J (2014) “Skill of direct solar radiation predicted by the ECMWF global atmospheric model over Australia”. *J. Applied Meteorology and Climatology*, 2571–2588, doi: [10.1175/JAMC-D-14-0074.1](https://doi.org/10.1175/JAMC-D-14-0074.1)
- Huang J, Troccoli A and Coppin P (2014) “An analytical comparison of four approaches to modelling the daily variability of solar irradiance using meteorological records”. *Renewable Energy*, 72, doi: [10.1016/j.renene.2014.07.015](https://doi.org/10.1016/j.renene.2014.07.015)
- Ellis N, Davy R and Troccoli A (2014) “Predicting wind power variability events using different statistical methods driven by regional atmospheric model output”. *Wind Energy*, doi: [10.1002/we.1779](https://doi.org/10.1002/we.1779)
- Convertino M, Troccoli A and Catani F (2013) “Landslide Patterns as Fingerprints of Climate Change”, *Journal of Geophysical Research*, doi: [10.1002/jgrf.20099](https://doi.org/10.1002/jgrf.20099).

- Troccoli A, Audinet P, Bonelli P, Boulahya MS, Buontempo C, Coppin P, Dubus L, Dutton JA, Ebinger J, Griggs D, Gryning S-E, Gunasekera D, Harrison M, Haupt S-E, Lee TR, Mailier P, Mathieu P-P, Schaeffer R, Schroedter-Homscheidt M, Zhu R and Zillman J (2013) "Promoting New Links Between Energy and Meteorology". *Bull. Amer. Meteorol. Soc.*, ES36-40, doi:10.1175/BAMS-D-12-00061.1.
- Troccoli A, Zambon F, Hodges K and Marani M (2012) Reply to Comment on "Storm surge frequency reduction in Venice under climate change" by G. Jordà, D. Gomis & M. Marcos. *Climatic Change*, doi: 10.1007/s10584-012-0506-5.
- Davy R and Troccoli A (2012) "Interannual variability of solar electricity generation in Australia", *Solar Energy*, doi:10.1016/j.solener.2011.12.004.
- Rowlinson B, Gunasekera D and Troccoli A (2012) "Potential role of renewable energy in water desalination in Australia", *Journal of Renewable and Sustainable Energy*, 4, 013108(1-15), doi: 10.1063/1.3682060.
- Schaeffer R, Szklo A, Frossard Pereira de Lucena A, Soares Moreira Cesar Borba B, Pinheiro Pupo Nogueira L, Pereira Fleming F, Troccoli A, Harrison A, Boulahya MS (2012) "Energy Sector Vulnerability to Climate Change: a review", *The International Energy Journal*, 38, 1-12, doi: 10.1016/j.energy.2011.11.056.
- Troccoli A, Muller K, Coppin P, Davy R, Russell C and Hirsch AL (2012) "Long-term wind speed trends over Australia", *J Climate*, 25, 170-183, doi: 10.1175/2011JCLI4198.1
- Troccoli A, Zambon F, Hodges K and Marani M (2011) "Storm surge frequency reduction in Venice under climate change", *Climatic Change*, doi: 10.1007/s10584-011-0093-x.
- Brayshaw DJ, Troccoli A, Fordham R, Methven J (2011) "The impact of large scale atmospheric circulation patterns on wind power generation and its potential predictability: A case study over the UK". *Renewable Energy*, 36, 2087–2096, doi:10.1016/j.renene.2011.01.025.
- Linkov I, Todd S, Bridges TS, Hady A, Jonsdottir I, Kiker G, Lambert J, MacBride M, Palma-Oliveira J, Ranger N, Russo E Troccoli A (2010) Brief Summary of a North Atlantic Treaty Organization (NATO) Advanced Research Workshop on Global Climate Change and Local Adaptation. *Integrated Environmental Assessment and Management*, 6:4, 617–618, doi: 10.1002/ieam.127.
- Troccoli A, Boulahya MS, Dutton JA, Furlow J, Gurney RJ and Harrison M (2010) "Weather and Climate Risk Management in the Energy Sector", *Bull. Amer. Meteorol. Soc.*, 6, 785-88. doi:10.1175/2010Bams2849.1
- Troccoli A (2010) "Seasonal Climate Forecasting: a Review", *Meteorological Applications*, 17, 251-268. doi: 10.1002/met.184. (invited)
- Shapiro M et al. (2010) "An Earth-system Prediction Initiative for the 21st Century", *Bull. Amer. Meteorol. Soc.*, 1377-1388, doi:10.1175/2010BAMS2944.1
- Troccoli A (2009) "Climate and the development community", *Weather*, vol. 64, n. 1, 25-26.
- Troccoli A and Palmer TN (2007) "Ensemble Decadal Predictions from Analysed Initial Conditions", *Phil. Trans. R. Soc. A*, vol. 365, 2179-2191.
- Troccoli A and Huddleston M (2006) "Forecasting UK and European winters", *Weather*, vol. 61, n. 12, 356-357.
- Troccoli A (2005) "Perfecting imperfect models", *Weather*, vol. 60, n. 6, 171-172.
- Troccoli A et al. (2002) "Salinity adjustments in the presence of temperature data assimilation", *Monthly Weather Review*, vol. 130, 89-102.
- Segnschneider J et al. (2001) "Initialization of seasonal forecasts assimilating sea level and temperature observations", *J. Climate*, vol. 14, 4292-4307.
- Grey S, Haines K and Troccoli A (2000) "A study of temperature changes in the upper North Atlantic: 1950—94", *J. Climate*, vol. 13, 2697-2711.
- Troccoli A and Haines K (1999) "Use of the Temperature-Salinity relation in a data assimilation context", *J. Atmos. Oceanic Technol.*, vol. 16, 2011-2025.

THESES

- Troccoli A (2001) "Ocean data assimilation using the temperature-salinity relation and water mass diagnostics", PhD Thesis, The University of Edinburgh, UK, 215 pp.
- Troccoli A (1996) "3-dim structure of the Adriatic sea and processes which determine it", Laurea Thesis, University of Padova, Italy, 224 pp (in Italian).

PROGRAMME PLANNING DOCUMENTS

- Troccoli A, Dubus L, Dilley M, Boulhaya MS and Lucio F (2015) "Energy Exemplar to the User Interface Platform (UIP) of the Global Framework for Climate Services", a roadmap document for the UN Global Framework for Climate Services and the World Meteorological Organisation. Available at: <http://gfcs.wmo.int/implementation-plan>

CONFERENCE PROCEEDINGS

- Troccoli A and Morcrette J-J (2012) "Forecast assessment of surface solar radiation over Australia", World Renewable Energy Conference, Denver, CO, USA.
- Gunasekera D and Troccoli A (2010) "Medium term prospects for wind and solar energy in Australia", Solar 2010 Conference, Canberra, Australia.
- Troccoli et al (2010) "Long term wind variability in Australia", 14th Australasian Wind Engineering Society Workshop, Canberra, Australia.
- Dickson RR, Hulme M, Stevenson H, Troccoli A, Hoskins BJ, Houghton JT, Niemeyer SJ and Venables J (2003) "Abrupt climate change: can society cope? Discussion", Phil. Trans. R. Soc. A, vol. 361, 2019-2021.
- Troccoli A and Rienecker MM (2002) "The importance of salinity in the assimilation of temperature observations in the tropical pacific ocean", Symposium on Observations, Data Assimilation, and Probabilistic Prediction, Orlando (USA), 107-110.

NEWSLETTERS/EDITORIALS

- Troccoli A (2016) "Assessing climate change resilience in the energy sector", A UK Energy Research Centre (UKERC) Guest Blog. Available at: <http://www.ukerc.ac.uk/network/network-news/guest-blog-assessing-climate-change-resilience-in-the-energy-sector.html>
- Hong T, Pinson P, Fan S, Zareipour H, Troccoli A and Hyndman RJ (2016) "Probabilistic Energy Forecasting: Global Energy Forecasting Competition 2014 and Beyond", to appear in International Journal of Forecasting.
- Troccoli A and Boscolo R (2015) "Climate Services for the Energy Sector: A New Priority Area for the GFCS". World Meteorological Organization (WMO) Bulletin vol 64(2), 13-16. Available at: <http://www.wmo.int/bulletin/en/content/issue-responding-challenges-climate-change>
- Troccoli A (2015) "Community spotlight a conversation with Alberto Troccoli", Interview for the Climate Services Partnership (CSP) Newsletter. Available at: http://www.climate-services.org/sites/default/files/CSPNewsletter_April2015.pdf
- Troccoli A (2013) "International Conference Energy & Meteorology (ICEM) Solar Radiation". Preface to special part of Solar Energy, 98, 99. <http://dx.doi.org/10.1016/j.solener.2013.10.030>.
- Troccoli A and Morcrette J-J (2013) "An assessment of solar irradiance components produced by the IFS", ECMWF Newsletter, 137, 6-7. Available at: <http://www.ecmwf.int/publications/newsletters/>
- Troccoli A (2011) "What's the energy forecast – bringing meteorology and generation together", The Conversation. Available at: <http://theconversation.edu.au/whats-the-energy-forecast-bringing-meteorology-and-generation-together-3406>
- Ferry N et al. (2008) "Seasonal weather prediction: How the Ocean Fast Track Services contribute towards improved meteorological services", Window on GMES, 57-61. Available at: http://ec.europa.eu/enterprise/space_research/publications.htm
- Troccoli A et al. (2008) "Coupled ocean-atmosphere medium range forecasts: the MERSEA experience", ECMWF Newsletter, 115, 27-35. Available at: <http://www.ecmwf.int/publications/newsletters/>
- Troccoli A and Doblas-Reyes F (2007) "Ocean data make their appearance on the public web at ECMWF", ECMWF Newsletter, 114, 6-7. Available at: <http://www.ecmwf.int/publications/newsletters/>
- Lavers D, Prudhomme C, Hannah DM and Troccoli A (2007) "Comparison of the potential skill of raw and downscaled GCM output for river flow forecasting: a UK case study", CLIVAR Exchanges, 12, 4, 33-25.
- Ferry N, Gu er emy J-F, Troccoli A and Gualdi S (2007) "Seasonal Prediction", MERCATOR ocean quarterly newsletter, n. 24, 11-13.
- Davey M et al. (2006) "Multi-model multi-method multi-decadal ocean analyses from the ENACT Project", CLIVAR Exchanges, 11, 3, 22-25.

TECHNICAL REPORTS

- Around twenty European Climatic Energy Mixes (ECEM) project reports (available on request).
- Troccoli A and Goswami P (2015) Harnessing Improved Weather and Climate Information for Renewable Energy Generation: Final Project Report. CSIRO/Australian Department of Foreign Affairs and Trade (DFAT) report, pp 16.
- Troccoli A (2015) "Integrated Solar Radiation Data Sources over Australia – Final report: project results and lessons learnt". CSIRO/Australian Renewable Energy Agency (ARENA) report, pp 37.
- Troccoli A, Perry M, Davy R, Paget M, Pascual R, Rikus L and Sengupta M (2015) Integrated Solar Radiation Data Sources over Australia: Final Project Report. CSIRO/ARENA report, pp 130.
- Troccoli A (2015) "Australian Solar Energy Forecasting System – Final report: project results and lessons learnt". CSIRO/ Australian Renewable Energy Agency (ARENA) report, pp 45.
- Troccoli A (2015) "Australian Solar Energy Forecasting System (ASEFS) – Phase I – Milestone 10 Report". CSIRO/ARENA report, pp 113.

- Troccoli A (2014) "Australian Solar Energy Forecasting System (ASEFS) – Phase I – Milestone 8 Report". CSIRO/ Australian Renewable Energy Agency (ARENA) report, pp 68.
- Perry M, Troccoli A, Davy R and Sengupta M (2015) Integrated Solar Radiation Data Sources over Australia: Statistical model development for high temporal resolution solar radiation time series and solar data assessment using NRELs National Solar Radiation Database. CSIRO/ARENA report, pp 30.
- Troccoli A, Davy R, Paget M and Pascual R (2014) "Integrated Solar Radiation Data Sources over Australia: Integrated Solar Radiation Dataset: Combining ground stations, satellite-derived and model data". CSIRO/ Australian Renewable Energy Agency (ARENA) report, pp 76.
- Troccoli A (2014) "Integrated Solar Radiation Data Sources over Australia: Integrated Solar Radiation Dataset: Report on workshop to discuss early results of solar radiation data set with a broad stakeholder group". CSIRO/ARENA report, pp 18.
- Huang J, Troccoli A and Davy R (2014) "Solar Radiation Data for Solar Power Site Assessment". Client report, pp 12.
- Troccoli A, Davy R, Paget M and Rozas-Larraondo P (2013) "Integrated Solar Radiation Data Sources over Australia: Solar radiation uncertainty and optimal ground stations layout". CSIRO/ARENA report, pp 49.
- Troccoli A, Davy R, Paget M, Rozas-Larraondo P, Rikus LJ, Sengupta M and Stoffel T (2013) "Integrated Solar Radiation Data Sources over Australia: Assessment of solar radiation." CSIRO/ARENA report, pp 38.
- Troccoli A (2011) "Preliminary analysis of projected 10-m wind speed over Australia using climate model scenario data", Australia Climate Change Science Program, Australia.
- Hirsch AL, Troccoli A, Russell CJ and Muller K (2011) "Report on the quality of automatic weather observations in Australia", Australia Climate Change Science Program, Australia.
- Russell C, Troccoli A, Woods M and Davy R (2011) "Simulation of Wind Speed Time-Series at Potential Wind Farms in South-Eastern Australia for the Calendar years 2002 to 2010", Report for the Australian Energy Market Operator, Australia.
- Russell C, Coppin P, Troccoli A and Price C (2010) "The FlatPVSolar (solflat) AWEFS module, Part II", Report for the Department of Resources, Energy and Tourism (DRET), Australia.
- Russell C, Woods M, Davy R, Troccoli A and Coppin P (2010) "The VariabilityIndex (varind) AWEFS module, Part II", Report for the DRET, Australia.
- Russell C, Woods M, Davy R, Troccoli A and Coppin P (2010) "The SimpleMultiSite (sms) AWEFS module, Part II", Report for the DRET, Australia.
- Troccoli A and Källberg P (2004) Precipitation correction in the ERA-40 reanalysis, ERA-40 Project Report Series, 13 [*Despite being a tech report it has been widely cited in ISI-tracked journal articles*].
- Anderson DLT et al. (2003) "Comparison of the ECMWF seasonal forecast Systems 1 and 2, and performance of the 1997/8 El Niño", ECMWF Tech. Memo N. 404.
- Troccoli A Rienecker M, Keppenne CL and Johnson GC (2003) "Temperature data assimilation with salinity corrections: validation for the NSIPP ocean data assimilation system in the tropical Pacific ocean", NASA Tech. Memo N. 104606, vol. 24.
- Anderson DLT et al. (2000) "Ocean data assimilation for seasonal forecasting", in Exploitation of the New Generation of Satellite Instruments for Numerical Weather Prediction, ECMWF.
- Troccoli A et al. (2000) "Salinity adjustments in the presence of temperature data assimilation", ECMWF Tech. Memo N. 305.

RECENT INVITED TALKS/LECTURES (FIRST AUTHOR ONLY)

- Troccoli A (2017) "Our Experience in Energy & Climate Services for the GFCS HelpDesk Development", WMO GFCS-Help Desk planning workshop, Offenbach, Germany (remotely).
- Troccoli A (2017) "Climate Service and Technology: a Key Tool of Climate Change Adaptation for the Energy Sector", Laboratoire des Sciences du Climat et de l'Environnement (LSCE), Paris, France.
- Troccoli A (2017) "Climate Service and Technology: a Key Tool of Climate Change Adaptation for the Energy Sector", European Bank for Development and Reconstruction, London, UK.
- Troccoli A (2016) "Il valore delle osservazioni e delle previsioni meteorologiche per le energie rinnovabili", Festival della Meteorologia, Rovereto, Italy.
- Troccoli A (2016) "Climate Service and Technology: a Key Tool of Climate Change Adaptation for the Energy Sector", JRC, Ispra, Italy.
- Troccoli A (2016) "Energy & Meteorology and the European Climatic Energy Mixes", Energy UK breakfast meeting, London, UK.
- Troccoli A (2016) "Energy & Meteorology and the European Climatic Energy Mixes", Eurelectric expert meeting, Brussels, Belgium.
- Troccoli A (2016) "Weather & Climate Adaptation Planning for Renewable Energy System", Conference on Climate Change Adaptation for the Energy and Industrial Sectors, Taipei, Taiwan.

- Troccoli A (2016) "Climate Service and Technology: a Key Tool of Climate Change Adaptation for the Energy Sector", Conference on Climate Change Adaptation for the Energy and Industrial Sectors, Taipei, Taiwan.
- Troccoli A (2016) "How Can Earth Observations Assist the Energy Sector?", European Space Solution, The Hague, the Netherlands.
- Troccoli A (2016) "The European Energy Climatic Mixes project", European Space Solution, The Hague, the Netherlands.
- Troccoli A (2016) "Energy & Meteorology Nexus", 6th International Energy Agency/Natural Resource Canada Nexus Forum, Ottawa (Canada).
- Troccoli A (2016) "Engagement Models for the Earth Science Community", NASA Energy Management Stakeholder Ideation Workshop, Arlington, VA (USA).
- Troccoli A (2015) "Global Framework for Climate Services (GFCS) Energy Priority: Implementation Planning", GFCS meeting, International Energy Agency, Paris, France.
- Troccoli A (2015) "Sectoral impacts of El Niño: Energy Industry experiences", El Niño Conference 2015, Palisades (NY) USA.
- Troccoli A (2015) "Resource assessment and forecasting for solar and wind energies", a series of four 90-min lectures for the Twelfth "International Seminar on Climate System and Climate Change", Lanzhou University, Lanzhou, China.
- Troccoli A (2015) "Conference Welcome and Opening", 3rd ICEM, Boulder, USA.
- Troccoli A (2015) "Overview of the draft GFCS Energy Exemplar", *WMO Congress Invited Expert*, Geneva, Switzerland.
- Troccoli A (2015) "An analysis of the Energy & Meteorology Couple", Guest speaker, World Meteorological Day, WMO, Geneva, Switzerland.
- Troccoli A (2015) "Solar Radiation Forecasting for the Energy Industry: The Australian experience", ECMWF, Reading, UK.
- Troccoli A (2015) "Solar Radiation Forecasting for the Energy Industry: The Australian experience", EDF, Paris, France.
- Troccoli A (2014) "Resource assessment and forecasts for solar and wind: Possible lessons from more mature technologies", Australian Wave Energy Atlas project Workshop, Melbourne, Australia.
- Troccoli A (2014) "Why should we be concerned about meteorological impacts on our energy systems?", Meeting of Italian Scientists Down Under, Embassy of Italy, Canberra, Australia.
- Troccoli A (2014) "Operational Wind and Solar Energy power forecasting for the Australian Energy Market", Energy Future Conference, Sydney, Australia.
- Troccoli A (2014) "Long-term wind speed trends and solar radiation monitoring siting over Australia", Ouranos, Montréal, Canada.
- Troccoli A and Dubus L (2014) "Why should we be concerned about meteorological impacts on our energy systems?", World Weather Open Science Conference, Montréal, Canada; <http://vimeo.com/106922114> or <https://www.wmo.int/pages/prog/arep/wwrp/new/wwosc/videos.html>.
- Troccoli A (2014) "Climate Change and the Energy Sector: Some Challenges", World Bank event, Fortaleza, Brazil.
- Troccoli A (2014) "Resource Assessment and Forecasting at the CSIRO", Land Power and Energy Workshop 2, Canberra, Australia.
- Troccoli A (2013) "The International Energy & Meteorology Community", International Conference Climate Services 3, Jamaica (remotely, unfortunately).
- Troccoli A (2013) "Weather and Climate Predictions for the Energy Sector", WIRE Summer School, Montegut, France.
- Troccoli A (2013) "Climate Change and Implications for Renewables", WIRE Summer School, Montegut, France.
- Troccoli A (2013) "Conference opening remarks", ICEM 2013, Toulouse, France; <https://www.youtube.com/watch?v=lgw6000Wyyq> or <http://vimeo.com/78038500>.
- Troccoli A (2013) "Uncertainty in Meteorological Data for the Energy Industry", ICEM 2013 pre-conference seminar, Toulouse, France; <https://www.youtube.com/watch?v=AASNldp3gb0> or <http://vimeo.com/77553648>.
- Troccoli A et al (2012) "Wind Power Variability and Ramp Forecasting", 3rd Annual Wind Farms Australia, Melbourne.
- Troccoli A (2011) "Weather & Climate Impacts on Energy Planning, Operations and Maintenance", APEC Climate Symposium, Hawaii (USA).
- Troccoli A (2011) "Weather & Climate Impacts on Energy Planning, Operations and Maintenance", 2nd Symposium on Renewable Energy Technology, Fiji.
- Troccoli A et al (2011) "Mesoscale Modelling, Power Variability Forecasting and Storage Applications", 2nd Annual Wind Farms Australia, Sydney.

- Troccoli A et al (2010) "Long term wind variability in Australia", Keynote speaker, 14th Australasian Wind Engineering Society Workshop, Geoscience Australia, Canberra.
- Troccoli A (2009) "Regional Aspects of Adaptation", Climate Change: Global Change and Local Adaptation. NATO Workshop, Hella, Iceland, oral in a panel discussion.
- Troccoli A (2010) in session "Leveraging ESMAP's Climate Vulnerability Assessment Pilot", ESMAP Knowledge Exchange Forum, World Bank, Washington DC.
- Troccoli A, Boulahya M and Furlow J (2010) "Management of Weather and Climate Risk in the Energy Industry", World Bank, Washington DC.
- Troccoli A (2009) "Weather, Climate and Renewable Energy at CSIRO", Climate and Sustainable Energy session at the World Climate Conference 3, Geneva, Switzerland.
- Troccoli A (2008) "Weather and Climate Prediction for the Energy sector", NATO Workshop "Weather/Climate Risk Management for the Energy sector", S. Maria di Leuca (I).
- Troccoli A (2008) "Environmental databases, ocean analyses and seasonal climate forecasts", a series of four 90-min lectures for the summer school "Climate forcings and global patterns", Istituto Veneto di Scienze Lettere ed Arti (IVLSA), Venezia (I).
- Troccoli A (2008) "Towards a seamless weather/climate system for climate risk management", Grantham Institute, Imperial College (UK).
- Troccoli A (2008) "The "extremes" of ECMWF: from Medium-Range coupled forecasts to decadal predictability", ICTP (Italy).
- Troccoli A (2008) "Seasonal climate prediction activities in Italy", CEH (UK).
- Troccoli A (2007) "Working at ECMWF extremes!", University of Reading (UK).
- Troccoli A (2006) Three lectures "Motivation and ingredients for a seasonal forecasting system", "Case study of the winter 2005-06 seasonal forecast for Europe" and "Skill, Interpretation and Communication" for the training course "Seasonal forecasts: the state of the art ...", Agenzia Regionale per la Protezione dell'Ambiente Ligure (ARPAL), Genova (I).
- Troccoli A (2006) "Dynamical Seasonal-to-Interannual Predictions: The European dimension", Long-range weather forecast consultation: Forecasts for the energy industry and markets, London, UK.
- Troccoli A (2005) "What can Seasonal Forecasts offer to their users?", European Conference on Application in Meteorology, Utrecht (NL).
- Troccoli A, Anderson DLT and Balmaseda M (2003) "Progress and issues of ocean data assimilation for seasonal forecasts and state estimation the ECMWF viewpoint", UK Ocean Data Assimilation meeting, RAL, Didcot (UK).
- Troccoli A et al. (2002) "Value of High Accuracy Altimeter Data for Seasonal Predictions", EUMETSAT STG Science Working Group, EUMETSAT HQ, Darmstad (D).

RECENT CONFERENCE PAPERS (FIRST AUTHOR OR AS PRESENTER ONLY)

- Troccoli A et al. (2017) "European Climatic Energy Mixes", 4th ICEM, Bari, Italy, oral.
- Troccoli A et al. (2016) "European Climatic Energy Mixes", European Meteorological Society Annual Conference, Trieste, Italy, oral.
- Chen Z and Troccoli A (2015) "Urban solar irradiance and power prediction from nearby stations", 3rd ICEM, Boulder, USA, oral.
- Nguyen K, Katzfey J, Riedl J, Troccoli A (2015) "Potential impacts of solar arrays on regional climate and on array efficiency", 3rd ICEM, Boulder, USA, oral.
- Chen Z and Troccoli A (2014) "Urban Solar Irradiance and Power Prediction in Canberra", Weather Intelligence for Renewable Urban Areas Workshop, Roskilde, Denmark (remotely)
- Troccoli A (2014) "Activities at the CSIRO's Weather & Energy Research Unit", The Energy Resource Institute, Delhi, India, oral.
- Chattopadhyay M and Troccoli A (2014) "Assessment of Renewable Energy Resources in India using a high resolution model", Assessment, Modelling and Applications of Renewable Energy (AMARE) Workshop, CSIR, Hyderabad, India, oral.
- Troccoli A et al (2013) "Integrated Solar Radiation Dataset for Australia", International Conference Energy & Meteorology, Toulouse, France, oral
- Troccoli A and Morcrette J-J (2012) "Forecast assessment of surface solar radiation over Australia", World Renewable Energy Conference, Denver, CO, USA, oral.
- Troccoli A and Morcrette J-J (2011) "Forecast assessment of surface solar radiation components over Australia", International Conference Energy & Meteorology, Gold Coast, Australia, oral.
- Troccoli A (2011) "Welcome Address", International Conference Energy & Meteorology, Gold Coast, Australia, oral.
- Troccoli A et al. (2011) "Long-term wind speed linear trends over Australia", Greenhouse2011, Cairns, Australia, poster.
- Troccoli A et al. (2010) "Long term wind variability in Australia, and worldwide", European Meteorological Society Conference, Zurich, Switzerland, oral.

- Troccoli A et al. (2010) "Decline in Extreme Storm Surges in Venice under Climate Change", Australian Meteorological and Oceanographic Society Conference, Canberra, Australia, oral.
- Troccoli A et al. (2007) "Medium-Range and Seasonal Forecasting Using MERSEA 1/4° Ocean Model", Final Mersea Plenary meeting, Paris (France), oral.
- Troccoli A (2007) "Previsioni climatiche stagionali", CMCC Workshop, Sassari (Italy), oral.
- Troccoli A and Palmer TN (2007) "Ensemble Decadal Predictions from Analysed Initial Conditions", ENSEMBLES Meeting, Barcelona (Spain), oral.
- Troccoli A et al. (2007) "INCLUDE: Integration of Climate into Sustainable Development Policy for Africa and Europe", WCRP Workshop on Seasonal Prediction, Barcelona (Spain), poster.
- Troccoli A and Palmer TN (2007) "Ensemble Decadal Predictions from Analysed Initial Conditions", WCRP Workshop on Seasonal Prediction, Barcelona (Spain), poster.
- Troccoli A et al. (2006) "Strategy and first results of seasonal forecasting experiments", MERSEA 3rd Annual Meeting, London (UK), oral.
- Troccoli A, Gualdi S and Gueremy JF (2005) "Special Focus Experiment on (Medium Range &) Seasonal Forecasting: lessons from the ENACT and DEMETER projects and strategy in MERSEA", MERSEA 2nd Annual Meeting, Toulouse (F), oral.
- Troccoli A, Anderson DLT and Stockdale T (2003) "Decadal predictions using a high resolution Coupled Global Circulation Model", International Young Scientists Global Change Conference, Trieste (I), oral.
- Troccoli A (2003) "Online wind stress correction using ocean data assimilation by-products", RMS Biennial Conference, Norwich (UK), oral.

MISCELLANEOUS SKILLS AND ACTIVITIES

LANGUAGES

Italian: native language

English: fluent, written and spoken. "*Certificate of Proficiency in English*" of Cambridge (1998).

French: conversational

COMPUTING KNOWLEDGE

Operating systems regularly utilised: Mac and Unix. Also extensively used Windows and Linux.

Regularly used for at least the last 20 years: Microsoft Office suite (Word, Excel, Power-Point). Solid experience with the statistics software R. Also considerable with FORTRAN, IDL and LaTeX.

Very good familiarity with HTML, Wordpress and Dreamweaver for web publishing

TRANSFERABLE SKILL (PERSONAL DEVELOPMENT) COURSES

"Shadowed" the Australian Bureau of Meteorology Director, Dr Rob Vertessy: a 1-day activity (2013)

"Shadowed" a CSIRO senior manager, Dr Carol Couch: a 1-day activity (2013)

Working with People: a 3-day course (CSIRO, 2011)

New People Leader Programme: a 3-day course (CSIRO, 2010)

Enterprise, Research and Innovation: a 1-week course (Univ. S. Marino, 2000)

Team Development: a 2-day course (Univ. Edinburgh, 1997)

MINOR WORK ACTIVITIES

Lifeguard swimming pools (Padua, Italy, part-time 1991-2)

Sales person for bedding products (Padua, Italy, part-time 1-6/1991)

Assistant instructor and sales person for personal memory courses (Padua, Italy, part-time 1990)

Waiter in a pizzeria (Jesolo, Italy, Summer 1988)

Pony-express (Padua, Italy, Summer 1987)

Crew in a motor boat (Italy, Slovenia, Croatia, Summers 1984-7)

Assistant mechanic for a motor boat (Padua, Italy, part-time, 1983-8)

NOTABLE SOCIAL ACTIVITIES

Power Boat safety (Certification 2017)

IT Officer for the ACT Little Athletics (Canberra, Australia, 2012-3)

President of the Parents and Community committee in the local school (Canberra, Australia, 2010)

Candidate for a major political party at local elections (Reading, UK, 2007-09)

Chair of a major political party branch (Reading, UK, 2007-09)

Neighbourhood watch scheme coordinator (Reading, UK, 2004-09)

Played Santa Claus for Christmas children parties (Reading, UK, 1999-2004)

HOBBIES

Medium-long distance running (e.g. run a few half-marathons)

Sailing (Sailing certification, Maryland, USA, 2001)

Photography (City and Guild certificate, UK, 2007)

Cycling, walking, reading, guitar strumming and playing with my family.