

PROF. ALBERTO TROCCOLI

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WORK EXPERIENCE (SELECTED)

WORLD ENERGY & METEOROLOGY COUNCIL
(WEMC), Norwich, UK and
Brisbane (Australia)
2015 - now

CO-FOUNDER AND MANAGING DIRECTOR

Established and raised an operating budget of more than £ 700k in 3 years. Developed a diverse team of six staff. Leading an operational climate service with six partners (ca. 10 staff). Leading a climate service demonstration for high school students. Convener of international conferences and stakeholder workshops.

UNIVERSITY OF EAST ANGLIA
(UEA), Norwich, UK
2015 - now

VISITING PROFESSOR AND PROJECT LEADER

Instigator and leader of a 3.5 year EU H2020 climate service project for the energy and water sectors, with nine partners (ca. 30 staff) and a budget of nearly € 5 mil. Developed and led a Copernicus prototype climate service with six partners (ca. 10 staff) and a budget of € 1.7 mil which produced a successful visual demonstrator.

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
(CSIRO), Canberra, Australia
2009-2015

PRINCIPAL RESEARCH SCIENTIST

Covered many roles of increasing seniority, including: Leader, Earth Assessment Group (ca. 25 staff); Head, Weather & Energy Research Unit (ca. 5 staff); Director, Australian Solar Energy Forecasting System project (A\$ 7.5 mil); Portfolio (stream) leader. Promoted from Research Scientist to Principal Research Scientist in 2013.

EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS
(ECMWF), Reading, UK
2002-2008

RESEARCH SCIENTIST

Main achievements: Task leader in a EU project (MERSEA); Director of a large summer school; 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.

NASA/UMBC
Goddard Space Flight Center,
Greenbelt, USA
2000-2002

ASSISTANT RESEARCH SCIENTIST

Implemented data assimilation scheme for ocean salinity I developed during my PhD into the NASA seasonal forecast system.



EDUCATION

THE UNIVERSITY OF MELBOURNE, Australia
2014

Certificate: Leading for Organisational Impact
(5-day residential programme)

THE UNIVERSITY OF EDINBURGH, UK
2000

PhD in Physical Oceanography

Thesis title: *Ocean data assimilation using the temperature-salinity relation and water mass diagnostics*

THE UNIVERSITY OF PADOVA, Italy
1996

Laurea in Physics (Masters level)

1st class equivalent

Thesis title: *3-dim structure of the Adriatic sea and processes which determine it.*



PROFILE

Alberto provides strong worldwide leadership in the application of weather and climate information to improve global energy transition and environmental sustainability. Through strong international connections, robust interpersonal, negotiation and management skills, solid scientific and analytical foundations, and an ethically-conscious vision not only has he consistently secured large amounts of funding from many sources, he has been delivering impressive quality output as both project leader and team player. Business savvy, he has established a successful non-profit organisation to effectively contribute to the interaction between science and industry. Exploiting his meticulous organisation skills he has been leading a series of very well received global conferences and various stakeholder engagement events. He is also regularly called upon to lead, or contribute to, project planning and formulation. Alberto has been substantially contributing to the weather and climate science and application literature as books editor, journal publications author and communicator. He is often invited to present at events around the world.

NATIONALITIES

Italian, British, Australian

FAMILY STATUS

Married, 3 children



SKILLS

STRATEGIC PLANNING



PROJECT LEADER



CAPACITY BUILDING



MANAGEMENT



SCIENTIFIC ANALYSES



ENTREPRENEURSHIP

Director of World Energy & Meteorology Council (WEMC), an organisation devoted to the sustainability, resilience and efficiency of global energy systems through an effective use of weather and climate information. With a budget of ca. GBP 700k/yr, WEMC is leading a major EU Copernicus Climate Change Service (C3S) contract and is partner in major EU projects; organises various events; has signed MOUs with UN's WMO and Royal Met. Society.

PROJECT LEADERSHIP

Leader of a EU H2020 project, [The Added Value of Seasonal Climate Forecasts for Integrated Risk Management Decisions](#) (SECLI-FIRM, Feb 2018-Jul 2021, ca € 5 m, 10 partners)

Leader of a EU H2020 proposal (1st stage), laying solid foundations for stage 2. The project, led by WMO, was funded (FOCUS-Africa, Sep 2020-Aug 2023, ca €7 m, 20+ partners): WEMC will lead a large component.

Leader of [C3S Energy Operational Service](#) (May 2018-Apr 2020, €1 m, 6 partners)

Leader of [C3S Climate and Energy Educational Demo](#) (May 2019-Apr 2020, €150k, 2 partners)

Leader of C3S [European Climatic Energy Mixes](#) (ECEM) service (Nov 2015-Mar 2018, €1.7 mil, 6 partners)

Leader of two projects under Australia's ARENA and DFAT (2012-2015, ca. A\$ 9 m, 8 partners in total)

Established an urban solar radiation and power measurement [network](#) in Canberra (2010-2015, A\$ 0.5 m)

THOUGHT LEADERSHIP

Member of Advisory Board for two EU projects (2017-2020)

Lead author of the UN's Global Framework for Climate Services (GFCS) [Energy Exemplar](#) (2015)

Chair of the Advisory Committee of an ARENA project on wave energy (2014-2015)

Member of a World Bank's Energy and Climate's Expert Panel (2009-2013)

PLOS ONE Academic Editor (2019-now), reviewer for 30+ journals, tens of project proposals.

EVENT LEADERSHIP

Initiator and Director of the [International Conference Energy & Meteorology](#) (ICEM) series (2011-now)

Convenor of tens of stakeholder workshops in the area of weather, climate and applications (2009-now)

Convenor of many webinars (2016-now)

Director of NATO Workshop [Weather/Climate Risk Management for the Energy Sector](#) (2009, 1-week)

Director of NATO Summer School [Seasonal to Interannual Climate Variability: its Prediction and Impact on Society](#) (2005, 2 weeks, 65 students, 15 lecturers)

PUBLICATIONS

Chief editor and author of four 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, 80k+ downloads as of 04.2020).

Author and co-authors of over fifty per-reviewed papers and book chapters, around two hundred project reports, tens of consultancy reports (WMO, World Bank, etc.), tens of blogs/newsletters.

SCIENTIFIC AND PUBLIC SPEAKING

Invited speaker at tens of events, e.g. (complete list in full CV):

- Guest speaker at the World Meteorological Day, WMO, Switzerland (2015)
- Plenary speaker at the World Weather Open Science Conference, Canada (2014)

Media communications – many interviews for television, radio, newspapers and magazines for scientific papers, general meteorological expertise, conference organisation, promotional videos, etc.

Written many newsletters, blogs, social media posts (LinkedIn, a few thousand connections, and Twitter).

Prof. Dr. Alberto Troccoli – Curriculum Vitae

WORK EXPERIENCE (COMPLETE LIST)

2015-now	World Energy & Meteorology Council (WEMC) , UK – Co-Founder and Managing Director
2015-now	University of East Anglia (UEA) , UK – Visiting Professor
2009-2015	Commonwealth Scientific and Industrial Research Organisation (CSIRO) , Australia
2008-2009	University of Reading , UK – Senior Research Fellow
2008	CMCC , Bologna, Italy – Head, Seasonal climate forecasting section
2002-2008	European Centre for Medium-Range Weather Forecasts (ECMWF) , UK – Research Scientist
2000-2002	NASA/UMBC , Goddard Space Flight Center , USA – Assistant Research Scientist
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

SPECIFIC PROFESSIONAL ACTIVITIES

PROFESSIONAL CONSULTANCIES

2018-9	Lead author of a successful EU H2020 first-stage multi-million proposal on multi-sector Climate Services (WMO). The project has been selected for funding: WEMC will be leading a large component.
2016	Main author of a Green Climate Fund project proposal for Global Climate Services for Energy (WMO)
2015	Main author of the UN's Global Framework for Climate Services (GFCS) Energy Exemplar. Troccoli A, Dubus L, Dilley M, Boulhaya MS and Lucio F (2015) Energy Exemplar to the User Interface Platform of the Global Framework for Climate Services, a roadmap document for the UN GFCS and the World Meteorological Organisation (WMO). http://gfcs.wmo.int/implementation-plan
2014	Provision of modelled solar data to a solar power developer (commercial; negotiation and manager)
2013-14	Multiple provisions of observed solar data from WERU's solar stations to solar power developers (research and commercial; negotiation and manager)
2012	Provision of modelled wind data to the Australian Energy Market Operator (negotiation and manager)
2010	Contributor of white paper identifying key issues for energy sector adaptation (World Bank). Contract negotiation for a team and key contributor in several chapters of the white paper
2009	Study for a private firm <i>Precipitation Forecasts and Climate Scenarios</i> . Prepared competitive proposal, negotiated contract and reviewed final document
2007-8	Reviewer of the ClimDev Africa programme proposal, for African Union, African Development Bank and UN Economic Commission for Africa, and contributed to the preparation of its summary

PROJECTS AND INTERNATIONAL COLLABORATIONS

2019-now	Contributing to the Green Climate Fund's project <i>Climate Rationale</i> led by WMO as Energy lead.
2019	Led the production a Climate and Energy module under the C3S User Learning platform project.
2019-now	Leader of the EU Copernicus Climate Chance Service (C3S) Climate and Energy Demo for Students.
2018-now	Leader of the EU C3S €1 mil operational Climate Service for Energy.
2018-now	Leader of an EU H2020 ca €5 million project "The Added Value of Seasonal Climate Forecasts for Integrated Risk Management Decisions".

2015-18	Leader of the EU C3S €1.7 million Climate Service “European Climatic Energy Mixes”.
2014-15	Leader of the Australian Renewable Energy Agency (ARENA) co-funded A\$7.5 million project <i>Australian Solar Energy Forecasting System</i>
2012-15	Leader of the Australian Renewable Energy Agency (ARENA) co-funded A\$ 1.4 million project <i>Integrated Solar Radiation Data Sources over Australia</i>
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 project <i>Solar Rain</i> , A\$ 100k (funded by Game Changer Ventures Ltd)
2012-15	Member of the International Energy Agency Task <i>Solar Resource Assessment and Forecasting</i>
2010-14	Partner in the EU COST Action <i>Weather Intelligence for Renewable Energy</i>
2012-14	Leader of the Australian DFAT 18-month capacity building activity <i>Harnessing improved weather and climate information for renewable energy generation</i> in India with CSIR and TERI
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, as a task leader

CONVENER AND EVENT DIRECTOR

2019	[upcoming] 3 rd <i>Symposium for Climate Services for Energy</i> , Paris, France, 19 May 2020
2019	Third stakeholder workshop H2020 SECLI-FIRM, Norwich, UK, 18 September 2019
2019	Stakeholder workshop <i>C3S Energy operational service</i> , Lyngby, Denmark, 26 June 2019
2019	The 6 th <i>International Conference Energy & Meteorology</i> , and 1-day pre-conference seminar, Lyngby, Denmark, 24-27 June 2019
2019	Second stakeholder workshop H2020 SECLI-FIRM, Milan, Italy, 17 January 2019
2018	First stakeholder workshop H2020 SECLI-FIRM, Brussels, Belgium, 7 June 2018
2018	The 5 th <i>International Conference Energy & Meteorology</i> , Shanghai, China, 22-24 May 2018
2018	WMO-WEMC-CMA Training course <i>Building Weather and Climate Services for the Energy Sector</i> , Shanghai, China, 18-20 May 2018
2018	2 nd <i>Symposium for Climate Services for Energy</i> (fifth stakeholder workshop of C3S <i>European Climatic Energy Mixes</i>), in co-operation with CLIM4ENERGY project, Paris, France, 5-6 March 2018
2017	Fourth stakeholder workshop of “European Climatic Energy Mixes”, Bari, Italy, 30 June 2017
2017	The 4 th <i>International Conference Energy & Meteorology</i> , and 1/2-day pre-conference seminar, Bari, Italy, 27-29 June 2017
2017	<i>Symposium for Climate Services for Energy</i> (third stakeholder workshop of C3S <i>European Climatic Energy Mixes</i>), in co-operation with CLIM4ENERGY project, Barcelona, Spain, 22-23 February 2017
2016	WMO-WEMC <i>Summer Course on Climate and Energy</i> , Norwich (UK), 4–7 July 2016
2016	Second stakeholder workshop of C3S <i>European Climatic Energy Mixes</i> , London, UK, 28 June 2016
2016	First stakeholder workshop of C3S <i>European Climatic Energy Mixes</i> , Paris, France, 16 February 2016
2015	A stakeholder workshop <i>Solar Forecasting & Storage</i> , Melbourne, Australia
2015	The 3 rd <i>International Conference Energy & Meteorology</i> , and 1-day pre-conference seminar, Boulder, CO, USA, 22-26 June 2015
2014	A 3-day workshop <i>Assessment, Modelling and Applications of Renewable Energy (AMARE): Towards 100% Renewable Energy</i> , Hyderabad, India (with Prashant Goswami, CSIR, India)
2014	A science day <i>Solar Resource Assessment and Forecasting</i> , Sydney, Australia

2014	A stakeholder workshop <i>Integrated Solar Radiation Dataset for Australia</i> , Sydney, Australia
2013	The 2 nd <i>International Conference Energy & Meteorology</i> , and 1-day pre-conference seminar, Toulouse, France, 25-28 June 2013
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 <i>Energy & Meteorology</i> , Newcastle, Australia
2011	The Inaugural <i>International Conference Energy & Meteorology</i> , and 1-day pre-conference seminar, Gold Coast, Australia, 8-11 November 2011
2011	A Climate and Energy Workshop at the APEC Climate Symposium, Hawaii (USA) [invited]
2010	A 1-day research workshop <i>Exploiting weather information to improve solar energy supply estimation</i> , Canberra, Australia
2008-09	A session at the European Meteorological Society Conference [invited co-convener]
2008	A 5-day NATO Workshop <i>Weather/Climate Risk Management for the Energy Sector</i> , S. Maria di Leuca, Italy, 6 – 10 October 2008
2005-08	Three very well attended national meetings of the Royal Meteorological Society (UK) <i>Perfecting imperfect models</i> (2005), <i>Forecasting UK and European winters</i> (2006), <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 <i>Seasonal to Interannual Climate Variability: its Prediction and Impact on Society</i> , Gallipoli, Italy, 23 May – 3 June 2005

JOURNAL EDITORIAL ROLES

2019-now	PLOS ONE Academic Editor
2018	Trocchi (2018) Guest Editor, <i>Global Energy Interconnection</i> , 1, 4, 2018, a Global Energy Interconnection Development and Cooperation Organization (GEIDCO) publication.
2012-13	Guest editor of a special issue of the <i>Solar Energy</i> journal
2010	Invited editor for papers of the Solar2010 Conference of the Australian Solar Energy 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. German Institute

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*.

Reviewed World Bank and Asian Development Bank reports, and Elsevier book proposals.

OTHER SCIENTIFIC COMMUNITY SERVICES	
2018-now	Member of the Advisory Board of EU ERA4CS project Clim2Power (https://clim2power.com)
2018-now	Member of the Advisory Board of EU H2020 project Plan4Res (https://www.plan4res.eu)
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 WMO to attend inception meeting for the UN's GFCS Energy exemplar and 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
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-now	[Sep 2017 start] PhD student at Leeds University (CASE Supervisor, with WEMC)
2016	Four-month intern at WEMC
2009-15	While at CSIRO: One PhD student (as 'industrial' supervisor) with UNSW (Sydney), one Masters student with UNSW (Canberra), Two one-year interns at CSIRO, Four summer students (one with Exemplary Energy), Five students for a term project (with University of Canberra)
2009	Masters student at Reading University (with University of Padova)
2001	Summer intern at NASA

EDUCATION OUTREACH	
2018	Climate and Renewable Energy. Webinar presentation, Bright Green Future, UK
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):	
<ul style="list-style-type: none"> • 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) 	

PROMOTIONAL VIDEOS	
5 th International Conference Energy & Meteorology: https://youtu.be/uCQ78QbvU1E	
World Energy & Meteorology Council: https://youtu.be/X8loMZosLNQ	
C3S ECEM Demonstrator: https://youtu.be/U-w5_sTHqG4	

OTHER WORK RELATED ACTIVITIES/AWARDS

2000	Assistant lecturer for a physics degree module at the University of Padova (Italy)
2000	<i>Outstanding student paper</i> award of the American Geophysical Union
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.

PUBLICATIONS

BOOK EDITOR

Troccoli A, ed (2018) <i>Weather and Climate Services for the Energy Industry</i> . Palgrave Macmillan, 197 pp. https://doi.org/10.1007/978-3-319-68418-5
Troccoli A, Dubus L and Haupt SE, eds (2014) <i>Weather Matters for Energy</i> . Springer Academic Publisher, 528 pp.
Troccoli A, ed (2010) <i>Management of Weather and Climate Risk in the Energy Industry</i> . NATO Science Series, Springer Academic Publisher, 344 pp.
Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds (2008) <i>Seasonal Climate: Forecasting and Managing Risk</i> . NATO Science Series, Springer Academic Publishers, 467 pp.

BOOK CHAPTERS

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: <i>Climate Resilient Pathways – Achieving Low Carbon, Resilient and Prosperous Economies</i> , Baldwin K, Raupach M, Lindsay J, Hussey K and Smith M, eds, Cambridge University Press, to appear in 2020.
Troccoli A (2018) Achieving Valuable Weather and Climate Services in: <i>Weather and Climate Services for the Energy Industry</i> , Troccoli A, ed, Palgrave.
Dubus L, Muralidharan S and Troccoli A (2018) What does the Energy Industry Require from Meteorology? in: <i>Weather and Climate Services for the Energy Industry</i> , Troccoli A, ed, Palgrave.
Troccoli A, Soares MB, Dubus L, Haupt SE, Boulahya MS and Dorling S (2018) Forging a dialogue between the energy industry and the meteorological community in: <i>Weather and Climate Services for the Energy Industry</i> , Troccoli A, ed, Palgrave.
Dubus L, Troccoli A, Haupt SE, Boulahya MS and Dorling S (2018) Lessons learned establishing a dialogue between the energy industry and the meteorological community and a way forward in: <i>Weather and Climate Services for the Energy Industry</i> , Troccoli A, ed, Palgrave.
Ronalds B, Wonhas A and Troccoli A (2014) A new era for Energy in: <i>Weather Matters for Energy</i> , Troccoli A, Dubus L and Haupt SE, eds, Springer Academic Publishers, 3-16.
Troccoli A (2014) Climatic changes: looking back, looking forward in: <i>Weather Matters for Energy</i> , 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: <i>Weather Matters for Energy</i> , 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: <i>Climate Change Adaptation</i> , Linkov I and Bridges TS, eds, Springer Academic Publishers, 479-490.
Troccoli A (2010) Weather and Climate Predictions for the Energy Sector, in: <i>Management of Weather and Climate Risk in the Energy Industry</i> , Troccoli A, ed, NATO Science Series, Springer Academic Publishers, 25-37.
Harrison M and Troccoli A (2010) Data Headaches, in: <i>Management of Weather and Climate Risk in the Energy Industry</i> , 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

Troccoli A (2020) Effect of Climate and Geography on Worldwide Fine Resolution Economic Activity. PLoS ONE 15(3): e0229243. <https://doi.org/10.1371/journal.pone.0229243>

Ho LT, Dubus L, De Felice M and Troccoli A (2020) Reconstruction of Multidecadal Country-Aggregated Hydro Power Generation in Europe based on a Random Forest Model. *Energies*, 13, 1786. <https://doi.org/10.3390/en13071786>

Saint-Drenan YM, Besseau R, Jansen M, Staffell I, Troccoli A, Dubus L, Schmidt J, Gruber K, Heier S (2020) A parametric model for wind turbine power curves incorporating environmental conditions. *Renewable Energy*, To appear.

Goodess C, Troccoli A, Acton C, Añel JA L, Bett PE, Brayshaw D, De Felice M, Dorling S, Dubus L, Penny L, Percy B, Ranchin T, Thomas C, Trolliet M, Wald L (2019) Advancing climate services for the European renewable energy sector through capacity building and user engagement. *Climate Services*, 16, 191–205, doi.org/10.1016/j.cliser.2019.100139

Bartók B, Tobin I, Vautard R, Vrac M, Jin X, Levavasseur G, Denvilc S, Dubus L, Parey S, Michelangeli PA, Troccoli A, Saint-Drenan YM (2019) A climate projection dataset tailored for the European energy sector. *Climate Services*, 16, doi.org/10.1016/j.cliser.2019.100138

De Felice M, Bruno Soares M, Alessandri A, Troccoli A (2019) Scoping the potential usefulness of seasonal climate forecasts for solar power management. *Renewable Energy* 142, 215-223, doi.org/10.1016/j.renene.2019.03.134

Troccoli A, Goodess C, Jones P, Penny L, Dorling S, Harpham C, Dubus L, Parey S, Claudel S, Khong D-H, Bett PE, Thornton H, Ranchin T, Wald L, Saint-Drenan Y-M, De Felice M, Brayshaw D, Suckling E, Percy B and Blower J (2018) Creating a proof-of-concept climate service to assess future renewable energy mixes in Europe: An overview of the C3S ECEM project. *Adv. Sci. Res.*, 15, 191–205, doi.org/10.5194/asr-15-191-2018

Mukkavilli SK, Prasad AA, Taylor RA, Huang J, Mitchell RM, Troccoli A, Kay MJ (2018) Assessment of atmospheric aerosols from two reanalysis products over Australia. *Atmospheric Research*, [10.1016/j.atmosres.2018.08.026](https://doi.org/10.1016/j.atmosres.2018.08.026)

Saint-Drenan YM, Wald L, Ranchin T, Dubus L, Troccoli A (2018) An approach for the estimation of the aggregated photovoltaic power generated in several European countries from meteorological data. *Advances in Science and Research*, 15, 51-62, doi.org/10.5194/asr-15-51-2018

Mukkavilli SK, Prasad AA, Taylor RA, Troccoli A and Kay MJ (2018) Mesoscale simulations of Australian direct normal irradiance, featuring an extreme dust event. *J Applied Met. and Climatology*, 493-515, doi.org/10.1175/JAMC-D-17-0091.1

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.

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)

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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.

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

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

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: 195-202, 10.1016/j.renene.2014.07.015

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Troccoli A, Zambon F, Hodges K and Marani M (2012) Reply to comment on Storm surge frequency reduction in Venice under climate change Jordà G, Gomis D, Marcos M. *Climatic Change*, doi: 10.1007/s10584-012-0506-5.

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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.

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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.

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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.

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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.

Segenschneider 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.

PREPRINTS

- Troccoli A (2019) Effect of Climate and Geography on Worldwide Fine Resolution Economic Activity. arXiv:1806.06358 [econ.EM], <https://arxiv.org/abs/1806.06358>
- Bett P, Thornton HE, Troccoli A, De Felice M, Suckling E, Dubus L, Saint-Drenan Y-M, Brayshaw DJ (2019) A simplified seasonal forecasting strategy, applied to wind and solar power in Europe. EarthArXiv, doi.org/10.31223/osf.io/kzwqx
- De Felice M, Dubus L, Troccoli A (2018) The impact of the North Atlantic Oscillation on European hydro-power generation. EarthArXiv, doi.org/10.31223/osf.io/8sntx

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).

NEWSLETTERS/EDITORIALS/CONFERENCE PROCEEDINGS (SELECTED)

- Troccoli (2018) WEMC Magazine (www.wemcouncil.org/wp/resources/#1572874015564-48a9e7dd-450f).
- Troccoli A (2016) Assessing climate change resilience in the energy sector, A UK Energy Research Centre (UKERC) Guest Blog. <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. WMO Bulletin vol 64(2), 13-16. <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. 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 and Morcrette J-J (2012) Forecast assessment of surface solar radiation over Australia, World Renewable Energy Conference, Denver, CO, USA.

Troccoli A (2011) What's the energy forecast – bringing meteorology and generation together, The Conversation. <http://theconversation.edu.au/whats-the-energy-forecast-bringing-meteorology-and-generation-together-3406>

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.

Ferry N et al. (2008) Seasonal weather prediction: How the Ocean Fast Track Services contribute towards improved meteorological services, Window on GMES, 57-61.

Troccoli A et al. (2008) Coupled ocean-atmosphere medium range forecasts: the MERSEA experience, ECMWF Newsletter, 115, 27-35. <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. <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 my J-F, Troccoli A and Gualdi S (2007) Seasonal Prediction, MERCATOR newsletter, 24, 11-13.

Dickson RR, Hulme M, Stevenson H, Troccoli A, Hoskins BJ, Houghton JT, Niemeier 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.

TECHNICAL REPORTS (SELECTED)

- Around thirty reports for the C3S Energy operational service (2018-2019), several as lead author (selected reports available on request).
- Around twenty reports for the H2020 SECLI-FIRM project (2018-2019, selected reports available on request).
- In excess of seventy reports for the C3S European Climatic Energy Mixes (ECEM) project, several as lead author (2015-2018, selected 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 Dept 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: Workshop report. 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 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.
Troccoli A and Källberg P (2004) Precipitation correction in the ERA-40 reanalysis, ERA-40 Project Report Series, 13 [<i>Despite being a tech report it has been widely cited in ISI-tracked journal articles</i>].
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.

PRESENTATIONS

SELECTED INVITED TALKS/LECTURES (FIRST AUTHOR ONLY)

Troccoli A (2019) “From Resource Assessment to Climate Projections: The Key Role of Meteorology in Planning and Operations of Solar Power (and other Energy sources)”, International Conference on Sustainable Energy-Water-Environment Nexus in Desert Climate, Doha, Qatar
Troccoli A et al. (2019) “Seasonal Forecast for Energy Management”, C3S General Assembly, Warsaw, Poland
Troccoli A et al. (2018) “Climate Change and the Global Electricity Interconnection”, COP24, Katowice, Poland
Troccoli A et al. (2018) “C3S Energy Operational Service”, COP24, Katowice, Poland
Troccoli A (2018) “Ingredients of climate services for the energy sector, and beyond”, H2020 CLARA project Multi-User Forum Workshop, Cordoba, Spain.
Troccoli A (2018) “What can European climate services offer to the energy sector?”, Workshop on Adaptation for European Energy Systems, European Environment Agency, Copenhagen, Denmark

Troccoli A (2018) "Climate services in support of the energy transformation", University of Queensland, Brisbane
Troccoli A (2018) "What can European climate services offer to the energy (and water resource) sector?", APEC Climate Symposium, Port Moresby, Papua New Guinea
Troccoli A (2018) "Global Impacts of Climate Change on Renewable Energy", Forecasting Workshop, Energy Systems Integration Group (ESIG), St Paul, MN, USA
Troccoli A (2018) "Climate services in support of the energy transformation", CMCC Seminar, Bologna, Italy
Troccoli A (2017) "Climate Change and Energy: from Knowledge to Decisions", Gas Natural Fenosa, Vigo, Spain
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" (in Italian), 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 ECEM", 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) Two lectures "Weather & Climate Adaptation Planning for Renewable Energy System", and "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) Two lectures "How can Earth observations assist the energy sector?" and "The European Energy Climatic Mixes project", European Space Solutions conference, The Hague, The Netherlands
Troccoli A (2016) "Energy & Meteorology Nexus", 6 th International Energy Agency 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, Palisades, USA.
Troccoli A (2015) "Resource assessment and forecasting for solar and wind energies", a series of four 90-min lectures for the Twelfth CMA's "International Seminar on Climate System and Climate Change", Lanzhou, China.
Troccoli A (2015) "Conference Welcome and Opening", 3 rd 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", ECMWF, Reading, UK.
Troccoli A (2015) "Solar Radiation Forecasting for the Energy Industry", 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 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/wwoosc/videos.html>.

Troccoli A (2014) "Climate Change and the Energy Sector: Some Challenges", World Bank event, Fortaleza, Brazil.

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=lgw6000Wyyo> 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, USA.

Troccoli A, Boulahya M and Furlow J (2010) "Management of Weather and Climate Risk in the Energy Industry", World Bank, Washington DC, USA.

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", four lectures for the summer school "Climate forcings and global patterns", Istituto Veneto di Scienze Lettere ed Arti, Venezia (I).

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 on seasonal climate forecasting system at 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 (2019) "The Added Value of Seasonal Climate Forecasting for Integrated Risk Assessment", SECLIFIRM project 2nd Stakeholder Workshop, Milan, Italy, oral

Troccoli A et al (2019) “The Added Value of Seasonal Climate Forecasting for Integrated Risk Assessment”, 99th Annual Meeting, American Meteorological Society, Phoenix, AZ, USA, oral
Troccoli A et al (2018) “How can seasonal climate forecasts help your business?” European Union Sustainable Energy Week, Brussels, Belgium, oral
Troccoli A et al. (2018) “H2020 SECLI-FIRM”, 5 th ICEM, Shanghai, China, poster
Troccoli A et al. (2018) “European Climate Services for Energy: C3S ECEM and H2020 SECLI-FIRM”, 5 th ICEM, Shanghai, China, oral
Troccoli A et al (2017) “Climate services in support of the energy transformation”, EGU, Vienna, Austria (presented by Parey S), oral
Troccoli A et al. (2017) “European Climatic Energy Mixes”, 4 th 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”, 3 rd 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”, 3 rd ICEM, Boulder, USA, oral.
Troccoli A (2014) “Activities at the CSIRO’s Weather & Energy Research Unit”, The Energy Resource Institute, Delhi, 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 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.

WEBINARS (SELECTED)

Most webinars as a presenter or chair available at: https://www.wemcouncil.org/wp/videos_and_webinars/

Troccoli (Jan 2020) C3S Education Demonstrator – Background & Vision: <https://youtu.be/kj268qXp1Y>

Troccoli A et al. (Jan 2020) EU H2020 SECLI-FIRM project overview and some preliminary results. <http://www.secli-firm.eu/presentations/#1578572731484-213c64e5-d4a9>

Troccoli A (Oct 2016) Energy Demand, Generation and Resilience under a Changing Climate, a Global Sustainable Electricity Partnership (GSEP) Webinar. <https://www.youtube.com/watch?v=dQIHVRDBOV8>

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 experience with FORTRAN, Python, IDL and LaTeX.

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)

Assistant mechanic and crew in a motor boat (Italy, Slovenia, Croatia, 1983-7)

NOTABLE SOCIAL ACTIVITIES

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 – run a Marathon (Venice, 2019) and a few half-Marathons

Sailing (Sailing certification, Maryland, USA, 2001), Power Boat safety (Certification 2017)

Photography (City and Guild certificate, UK, 2007)

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