

Curriculum Vitae

Dr. Konstantia (Dia) Tolika

Associate Professor, Department of Meteorology and Climatology, Aristotle University of Thessaloniki (AUTH)
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Work Experience

2020- present: Associate Professor, Department of Meteorology and Climatology, Aristotle University of Thessaloniki (AUTH), Greece
2018- 2020: Assistant Professor (Permanent Position), Department of Meteorology and Climatology, Aristotle University of Thessaloniki (AUTH), Greece
2014- 2018: Assistant Professor, Department of Meteorology and Climatology, Aristotle University of Thessaloniki (AUTH), Greece
2009-2013: Lecturer, Department of Meteorology and Climatology, Aristotle University of Thessaloniki (AUTH), Greece
2003 – 2008: Research Associate, Department of Meteorology and Climatology, Aristotle University of Thessaloniki (AUTH), Greece.

Education - Studies

2006: Doctor at Climate Change - Climatology, Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki.
2002: MSc. in Meteorology-Climatology, Aristotle University of Thessaloniki (AUTH), Greece.
2000: BSc. in Physics, Faculty of Sciences, Aristotle University of Thessaloniki, Greece.

Foreign Languages

ENGLISH: Excellent (Certificate of Proficiency in English, University of Cambridge, Certificate of Proficiency in English, University of Michigan)
FRENCH: Good (DELF 1)
GERMAN: Basic

Computing Skills

Neural Networks Technology – Statistical downscaling models, Microsoft Windows/Office, STATISTICA, SURFER, FORTRAN, PASCAL, VISUAL BASIC, C (seminars), R

Honors - Awards

2001-2002 MSc. Award of excellence of the Greek State Scholarships Foundation (IKY)

Research Experience in International and National Projects

2021- “Extreme Weather Events: Awareness, Education and Protection using open tools of educational robotics. Co-Operation Project between the Experimental School of the AUTH and the School of Geology (**SI: K. Tolika**)
MEGAQCLIM 2018- present: Integrated Quantitative Assessment of Climate Change Impacts on Mediterranean Coastal Water Resources and Socio – Economic Vulnerability Mapping. ERANETMED Water Resources (AUTH P.I.: I. Krestenitis)
Enhancement of Postdoctoral Fellowship / Researchers - 2nd Cycle (2019 present): Climate change in an urban environment: impacts on energy demand and thermal comfort conditions in indoor and outdoor buildings and exploration of adaptation strategies, (Postdoctor – Stella Tsoka) (**Consultor**)
EEA Grants 2015-2017: Improving the knowledge in determining the minimum water level and flow of water bodies The project (contract number 91967) is supported by the EEA Grants and the Ministry of Environment and Energy (AUTH P.I: A. Zafeirakou)
THALIS CCSEAWAVS2012- 2016: THALIS CCSEAWAVS- Estimating the effects of Climate Change on Sea level and Wave climate of the Greek seas, coastal Vulnerability and Safety of coastal and marine structures. General Scientific Responsible (Prof. Panagiotis Prinos). Leader of Research Group 2 (Geology) **Konstantia Tolika. Scientific Responsible of WP1.**
ACTION A: Research activity support for lecturers 2012 Action A: Research activity support for lecturers: Study of the extreme warm conditions (maximum temperatures – warm spells) over the greatest urban cities in Greece: Past – Present

– Future Projections. Funded by the Research Committee of the Aristotle University of Thessaloniki (cont Num 87989)

Principal Investigator Konstantia Tolika

CC-WaterS 2009- 2013 CC-WaterS – Climate change and Impacts on Water Supplies The CC-WaterS project (cont. num 83593) is supported by the SouthEast Europe Transnational Cooperation Programme (SEE) and by means of the European Regional Development Fund. Thematic Working Groups (TWG) – TWG3 – Climate Change (AUTH P.I.: M. Vafiadis)

1st Latsis Foundation Summer School: 2009 1st Latsis Foundation Summer School: Environment- Climate Change – Impacts Organizing Committee: Organization in collaboration with the National Observatory of Athens the 1st summer school on Environment – Climate Change and Impact funded by the Latsis Foundation (cont num. 84161). (AUTH P.I. C. Anagnostopoulou) Member of the organizing committee.

ENSEMBLES 2004-2009 ENSEMBLE-based Predictions of Climate Changes and their Impacts. The ENSEMBLES project (contract number GOCE-CT-2003-505539) is supported by the European Commission's 6th Framework Programme as a 5-year Integrated Project from 2004-2009 under the Thematic Sub-Priority "Global Change and Ecosystems". ENSEMBLES Research Themes (RT) RT4 Understanding the process governing climate variability and change, climate predictability and the probability of extreme events (AUTH P.I.: P. Maheras)

GABARDINE 2005 - 2009 GABARDINE: Groundwater Artificial recharge Based on Alternative sources of water: aDvanced INtegrated technologies and management A STREP Project Funded by the European Commission under the Sustainable Development, Global Change and Ecosystems Thematic Contract Number: 518118-1 (AUTH P.I.: P. Maheras)

PYTHAGORAS 2004-2006 PYTHAGORAS: Spatial-temporal study of the relationships between the extreme weather – climate conditions and the atmospheric circulation in the Greek region, during the second half of the 20th century. Research Project (EPEAEK) funded by the National Ministry of Education and Religion Affairs and the European Community. (AUTH P.I.: P. Maheras)

STARDEX 2002-2005 STARDEX: Statistical and Regional dynamical Downscaling of Extremes for European regions: A research project supported by the European Commission under the Fifth Framework Programme and contributing to the implementation of the Key Action "Global change, climate and biodiversity" within the Environment, Energy and Sustainable Development (Contract no: EVK2-CT-2001-00115) (AUTH P.I.: P. Maheras)

Guest Editor – Reviewer in International Journals

2021: Guest Editor on Climate Journal, Special Issue "Cyclones, Hurricanes, Medicanes and Impacts"

https://www.mdpi.com/journal/climate/special_issues/climate_Cyclones_Hurricanes_Medicanes?fbclid=IwAR3irU_ORo_rqzQD-kH7h-V48eOAd1J0HsT8HKNmYgBBpA010d3KldfCSUuU

2019 – 2020: Guest Editor on Climate Journal, Special Issue " Precipitation: Forecasting and Climate Projections"

https://www.mdpi.com/journal/climate/special_issues/precipitation_climate_forecasting

2018-2019: Guest Editor on Climate Journal, Special Issue "Climate Variability and Change in the 21th Century"

http://www.mdpi.com/journal/climate/special_issues/climate_variability_21

Reviewer in International Journals: Climatic Change, Natural Hazards, International Journal of Climatology, Theoretical and Applied Climatology, Atmospheric Research, Physics and Chemistry of the Earth, Advances in Water Resources, Meteorology and Atmospheric Physics, Atmospheric Research Letters, Journal of Climatology, American Society of Agricultural and Biological Engineers, Climate, Journal of Water Supply, Global Nest Journal, Water, Atmosphere, Environmental Processes, Hydrology

Organizing Skills

2019 President of the Organizing Committee: AIC 2019 XXXIIème colloque international de l’AIC. « Le Changement Climatique, la variabilité et les risques climatiques» Thessaloniki – Grèce du 29 mai au 1 juin 2019.

2019 Member of the Scientific Committee: SBE 2019 Conference on Sustainability in the building environment for climate change mitigation, 23-25 Oct, Thessaloniki, Greece 2019

2018 Member of the Scientific Committee: 11th National Conference on “Low Impact Alternative Energy Sources” • I.H.T. • Thessaloniki, 14-16.03.2018

2018 Member of the Scientific Committee: COMECAP 2018 13th International Conference in Meteorology Climatology and Atmospheric Physics. Alexandroupoli, Greece 2018

2016 Member of the Scientific Committee: COMECAP 2016 13th International Conference in Meteorology Climatology and Atmospheric Physics. Thessaloniki, Greece 2016

2016 Member of the Organizing Committee: 29th Hellenic Conferences of Statistics “Risk management to the environment and economy” 4-7 May 2016, Thessaloniki – Naousa (in Greek).

2009 Member of the Organizing Committee: 3rd Pan-Hellenic Conference «Climate Change, Sustainable development and renewable energy sources » Thessaloniki, 15-17 October 2009

2009 Member of the Organizing Committee: Latsis Foundation 1st International Summer School: Climate – Climate Change – Impacts, Athens, July 2009

2008: Member of the Organizing Committee: 9th Pan-Hellenic (International) Conference in Meteorology Climatology and Atmospheric Physics. Thessaloniki, Greece 2008

2008: Member of the Organizing Committee: Annual meeting of the EU-funded project GABARDINE, Thessaloniki, Greece.

Teaching Experience

Faculty of Agriculture, Forestry and Natural Environment, AUTH

- -Climate Change (Master Course, 2019 - today)

Dept. Of Meteorology and Climatology, School of Geology, AUTH

- -Climate Analysis (*Master Course*, 2005-today)
- -Climate Change (Master Course, 2006 - today)
- -Computer Labs (Master Course, 2009-today)
- -Mediterranean and Greek Climate (Master Course, 2008-today)
- -Atmospheric Pollution and Climate Change (Undergraduate, 2009-today)
- -Historical Climatology – Paleoclimatology (Undergraduate, 2009-today)
- -General Climatology – Mediterranean and Greek Climate (Undergraduate, 2009-today)
- -Meteorological and Climatological Issues (Undergraduate, 2009-today)
- -Applied Climatology (Master Course, 2009-2013)

Invited Speaker in the Master course of the Civil Engineer Polytechnic School, AUTH

- -Climate Change – Climatic Models- Future Projections (2007-2008)

School of Military Meteorologists (Airforce – Sedes) Thessaloniki, AUTH

- -Climatology I (2006-2008)
- -General Meteorology (2003-2005)
- -Physics of the Atmosphere and Clouds (2003-2005)

Assistant- Teaching in the Dept. Of Meteorology and Climatology, AUTH

- -Climate Analysis (Master Course, 2001-2005)
- -Meteorological Observations – Lab Exercises (Undergraduate, 2001-2003)

Assistant- Teaching in undergraduate course in the school of Physics, AUTH

- -Lab of applied software (Undergraduate, 1999-2000)

Teaching and Supervising Activity (Graduate, Master and PhD students)

Undergraduate:

I am the supervisor of 21 undergraduate students, 16 have completed their undergraduate thesis.

Master:

I am the supervisor of 8 Master Students, and all of them have finished their master thesis.

- Asimina Tzaki (2010) “An assessment of the future change of the climate in the Mediterranean region: Application of the Koppen classification using updated RCMs”.
- Marina Hostelidou (2012) “Study of heat urban island in Thessaloniki”
- Kondylia Velikou (2012) “On the study of frost conditions in the Greek region: Future projections using the ENSEMBLES RCMs”
- Stavroula Halisiani (2019) “ Evaluation and future projections of the temperature and precipitation conditions over the European region using updated RCMs”
- Anastasia Sikioti (2019) “On the study and statistical analysis of the season duration over Europe”
- Magda Hori (2019) “Study and Analysis of the mean and extreme precipitation in Germany”
- Stefi Triga “Statistical and dynamical analysis of the cold winter spells over the Balkan area”

- Maria – Olga Voudouri “On the study of the 2019 heat-wave in the European Capitals: Application of the up-to-date heat wave index EHF (Excess Heat Factor).

I have been the member of the examination committee of 7 Master Theses (all completed)

PhD:

I am the supervisor of 1 PhD student.

- Kodylia Velikou “Dynamical downscaling of the regional climate model RegCM for the Greek region: Statistical analysis, dynamical evaluation, impacts and future projections”

I have been a member of the consulting committee of 2 PhD thesis (all completed)

- Eftihia Rousi (2014)
- Georgia Lazoglou (2020)

I have been a member of the examination committee of 5 PhD thesis (all completed):

- Christina Michailidou (2010)
- Dimitris Akritidis (2014)
- Stefanos Stefanidis (2018)
- Stella Tsoka (2019)
- Panagiota Venetsanou (2019)

Participation – Speeches – Presentations in International and National Scientific Meetings and Conferences

2019: Invited Speaker. SOS WATERFRONT CLIMATE CHANGE A STRATEGY OF EXCELLENCE IN RESEARCH AND INNOVATION TO DESIGN TOOLS FOR THE WATERFRONT TO FACE CLIMATE CHANGE, HORIZON2020 – MARIE CURIE RISE, STUDENT WORKSHOP ON ENVIRONMENTAL URBAN STRATEGIES AND DESIGN, Thessaloniki, October, 2019.

2019: Invited Speaker SUMMER SCHOOL AUTH – KIT on Clean Energy and Sustainability, Possidi, Greece 2-6 September 2019,: “Updated estimations of the future changes of extreme temperatures and precipitation over the European region: Their association with natural hazards over the area.”

2019: AIC 2019 XXXIIème colloque international de l’AIC. « Le Changement Climatique, la variabilité et les risques climatiques» Thessaloniki – Grèce du 29 mai au 1 juin 2019 (**president of the organizing committee**, presentations).

2018: 14o International Conference of Meteorology, Climatology and Atmospheric Physics, Alexandroupoli, 2016 (presentations).

2017: Improving the knowledge in determining the minimum water level and flow of water bodies The project (contract number 91967) is supported by the EEA Grants and the Ministry of Environment and Energy. 1st meeting, Thessaloniki, 2017

2016: Improving the knowledge in determining the minimum water level and flow of water bodies The project (contract number 91967) is supported by the EEA Grants and the Ministry of Environment and Energy. Kick-off meeting, Thessaloniki, 2016

2016: International Conference of Meteorology, Climatology and Atmospheric Physics, Thessaloniki, 2016 (presentations)

2016: 29th Pan-Hellenic Conference of Statistics “Risk management on the environment and economy” 4-7 May 2016, Thessaloniki – Naousa (presentation)

2015: THALIS CCSEAWAVS project “Estimating the effects of Climate Change on Sea level and Wave climate of the Greek seas, coastal Vulnerability and Safety of coastal and marine structures”. Final Meeting, Thessaloniki, November 2015.

2014: 12th Pan-Hellenic (International) Conference in Meteorology Climatology and Atmospheric Physics COMECAP 2014, Heraklio 2014. (Presentations)

2012: THALIS CCSEAWAVS project “Estimating the effects of Climate Change on Sea level and Wave climate of the Greek seas, coastal Vulnerability and Safety of coastal and marine structures” Kick-off Meeting, Thessaloniki, 2012

2010: 12th Plinius Conference on Mediterranean Storms. Corfu Island, Greece, 1-4 September 2010. (1 παρουσίαση)

2009: Latsis Foundation 1st International Summer School: Climate – Climate Change – Impacts, Athens, July 2009 Speech “The ENSEMBLES regional climate models: assessments and future projections for the Mediterranean region”

2008: ESF- MedCLIVAR Workshop “Regional climate modelling and regional climate change”, Treiste 13-15 October 2008, H195, Invited Speaker “ Future projections of extreme rainfall and temperature conditions over the Mediterranean region: scenarios from three updated regional climate models”

2008: 9o Conference in Meteorology Climatology and Atmospheric Physics. COMECAP 2008. Thessaloniki, 28-31 May 2008. (presentations)

2008: GABARDINE (Ground Artificial recharge Based on Alternative sources of water: advanced integrated technologies and management) Sixth Consortium Meeting, 18-20 June, Liege, Belgium 2008

2007: ENSEMBLES. Fourth General Assembly, Prague, Czech, 12-16 November 2007

2007: GABARDINE (Ground Artificial recharge Based on Alternative sources of water: advanced integrated technologies and management) Fifth Consortium Meeting, October 18-20, Thessaloniki, Greece 2007

2007: 8th Hellenic Geography Conference, Athens, 4-7 October 2007. (2 presentations)

2007: GABARDINE (Ground Artificial recharge Based on Alternative sources of water: advanced integrated technologies and management) Fourth Consortium Meeting, March 19-20, Barcelona & Sabadell, Spain 2007

2006: ENSEMBLES. Third General Assembly, Lund, Sweden 20-24 November 2006

2006: GABARDINE (Ground Artificial recharge Based on Alternative sources of water: advanced integrated technologies and management) Third Consortium Meeting, November 6-10, Lisbon, Portugal 2006.

2006: ENSEMBLES "Workshop on Extreme Climatic Events and Impacts", 25-28 March, Riederalp, Switzerland, 2006.

2006: EGU (European Geosciences Union) 2006, Vienna, April 2006 (2 Presentations)

2006 : XVIIIe Colloque International de Climatologie (AIC) : Les risques liés au temps et au climat, 6-9 Septembre, Epernay, France 2006 (1 Présentation)

2006: 8th Pan-Hellenic (International) Conference in Meteorology Climatology and Atmospheric Physics. Athens, 2008. (3 Presentations)

2004: Swiss NCCR Climate Summer School, 29 August – 3 September 2004 on Monte Verità (Ascona), Switzerland. Topics: A) Pertinent aspects of climate physics B) Climate phenomena and processes at seasonal to decadal time ranges C) Assessments of predictability and approaches to prediction D) Associated impacts to climate change on society and economy's vulnerability. (2 presentations (poster))

2004 : XVIIe Colloque International de Climatologie (AIC), 8-10 Septembre, Caen, France 2004 (1 présentation)

2004: 7th Pan-Hellenic (International) Conference in Meteorology Climatology and Atmospheric Physics. Cyprus, September 2004. (3 presentations)

2003: STARDEX (Statistical and Regional dynamical downscaling of Extremes for European Region). 3rd Meeting, ARPA Bologna, Italy, May 2003

2002: 6th Hellenic Conference in Meteorology Climatology and Atmospheric Physics. Ioannina 2002 (1 presentation)

2000: 5th Hellenic Conference in Meteorology Climatology and Atmospheric Physics. Thessaloniki 2000

Professional Society Membership

European Geosciences Union (EGU).
 Hellenic Meteorological Society (EMTE).
 Hellenic Physics Society.

Scientific Papers - Publications

- **Publications in Scientific Journals: 48** (H-index : **17**, Citations (*self-citations excluded*) : **630** (*sources: Scopus – Web of Science- Scholar Google*)
- **Publications in International and National Conferences: 64**
- **Books: 1**
- **Papers Published in Special Volumes: 3**
- **Abstracts in International Scientific Conferences: 26**

A. THESIS

1. **Tolika K** (2002) MSc dissertation: Study of wet spells and their rainfalls in the Greek area Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki.
2. **Tolika K** (2006) PhD Thesis: Climate Change assessments in the Greek region during the 21st century by applying climate models. Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki.

B. PUBLICATIONS IN SCIENTIFIC JOURNALS

1. Vafiadis M, **Tolika K**, Patrikas I et Anagnostopoulou Ch (2000). Distribution géographique des températures maximales par type de circulation et leurs tendances en Grèce. *Publ. de l'AIC* Vol 13, 381-388
2. Maheras P, Vafiadis M, Kolyva-Machera F, Anagnostopoulou C et **Tolika K** (2003). Les champs des anomalies pluviométriques durant la saison humide en Grèce et leurs relations avec le géopotential à 500hPa. *Publ. de l'AIC*, Vol 15, 312-318.

3. Maheras P, **Tolika K**, Anagnostopoulou Chr, Vafiadis M, Patrikas I and Flocas H (2004). On the Relationships between circulation types and changes in Rainfall Variability in Greece. *International Journal of Climatology*, 24, 1695-1712.
4. Flocas HA, **Tolika K**, Anagnostopoulou Chr, Patrikas I, Maheras P and Vafiadis M (2005). Evaluation of maximum and minimum temperature of NCEP-NCAR reanalysis data over Greece. *Theoretical and Applied Climatology*, 80, 49-65
5. **Tolika K** and Maheras P (2005). Spatial and temporal characteristics of wet spells in Greece. *Theoretical and Applied Climatology* 81: 71-85.
6. Maheras P, Flocas H, **Tolika K**, Anagnostopoulou C and Vafiadis M (2006). Circulation Types and extreme temperature changes in Greece. *Climate Research* 30(2), 161-174.
7. **Tolika K**, Maheras P, Flocas H and Arseni – Papadimitriou A (2006). An evaluation of a general circulation model (GCM) and the NCEP-NCAR reanalysis data for winter precipitation in Greece. *International Journal of Climatology* 26, 935-955
8. Anagnostopoulou Chr, **Tolika K**, Flocas H and Maheras P (2006): Cyclones in the Mediterranean region: Present and Future climate scenarios derived from a General Circulation Model (HadAM3P). *Advances in Geosciences*, 7, 9-14.
9. Kostopoulou E, Giannakopoulos C, Anagnostopoulou Chr, **Tolika K**, Maheras P, Vafiadis M (2007). Simulating maximum and minimum temperatures over Greece: A comparison of three downscaling techniques. *Theoretical and Applied Climatology*, 90, 65-82.
10. **Tolika K**, Maheras P, Flocas H, Vafiadis M, Arseni – Papadimitriou A (2007). Simulation of Seasonal Precipitation and Raindays over Greece: A statistical downscaling technique based on Artificial Neural Networks (ANNs). *International Journal of Climatology*, 27, 861-881.
11. **Tolika K**, Maheras P, Vafiadis M and Anagnostopoulou Chr (2007). Comparaison de deux scénarios (statistique et dynamique) concernant les précipitations hivernales en Grèce. *Revue de Climatologie (ex. Annales) de l'Association Internationale de Climatologie (AIC)* 73-90.
12. **Tolika K**, Anagnostopoulou Chr, Maheras P, Kutiel H (2007). Extreme Precipitations related to Circulation Types for four case studies over the Eastern Mediterranean. *Advances in Geosciences*, 12, 87-93
13. Anagnostopoulou Chr, **Tolika K**, Maheras P, Kutiel H., Flocas H (2008). Performance of the General Circulation HadAM3P Model in simulating circulation types over the Mediterranean Region. *International Journal of Climatology* 28, 185-203
14. Anagnostopoulou Chr, **Tolika K**, Maheras P, Reiser H, Kutiel H (2008). Quantifying uncertainties in precipitation: a case study from Greece. *Advances in Geoscience* 16, 19-26
15. **Tolika K**, Anagnostopoulou Chr, Maheras P, Vafiadis M (2008). Simulation of future changes in extreme rainfall and temperature conditions over the Greek area: A comparison of two statistical downscaling approaches. *Global and Planetary Change* 63, 132-151
16. Maheras P, **Tolika K** et Anagnostopoulou C (2008) Relation entre les précipitations moyennes et extremes et les types de circulation atmosphérique en Belgique. *Bulletin de la Société géographique le Liège*, 51, 115,125
17. Good P, Giannakopoulos C, Flocas H, **Tolika K**, Anagnostopoulou Chr, Maheras P (2008). Detailed significant changes in the regional climate of the Aegean during 1961-2000. *International Journal of Climatology* 28, 1735-1749
18. Anagnostopoulou Chr, **Tolika K**, Maheras P (2009). Classification Of Circulation Types: A New Flexible Automatic Approach Applicable to NCEP and GCM Data. *Theoretical and Applied Climatology*, Theoretical and Applied Climatology Volume 96, Issue 1-2, 2009, Pages 3-15
19. Kostopoulou E, **Tolika K**, Tegoulis I, Giannakopoulos C, Somot S, Anagnostopoulou C and Maheras P (2009) Evaluation of a Regional Climate Model using in-situ temperature observations over the Balkan Peninsula. *Tellus A*, 61A, 357-370.
20. **K. Tolika**, P Maheras, I Tegoulis (2009) Extreme temperatures in Greece during 2007: Could this be a “return to the future”? *Geophysical Research Letters*, Volume 36, Issue 10, 28 May 2009, Pages L10813.
21. Papadopoulos A, **Tolika K**, Pantera A and Maheras P (2009). Investigation of annual variability of the Aleppo pine tree-rings width: the relationships with the climatic conditions in the Attica Basin. *Global Nest Journal* Volume 11, Issue 4, December 2009, Pages 583-592
22. P Maheras, **K Tolika**, B Chiotoroiu (2009) Atmospheric circulation types associated with storms on the Romanian black sea coast. Application of a new automated scheme. *Bulletin de la Société géographique de Liège*, 51, 2008, 115-125
23. Flocas, M Hatzaki, **K Tolika**, C Anagnostopoulou, E Kostopoulou, C Giannakopoulos, E Kolokytha, I Tegoulis (2011) Evaluating the ability of three RCM/GCM couples to Represent the relationship of large scale circulation with climate extremes over the Mediterranean. *Climate Research* Volume 46, Issue 3, 2011, Pages 197-209

24. **Tolika K**, I Pytharoulis, P Maheras (2011) The anomalous high temperatures of November 2010 over Greece: Meteorological and climatological aspects. *Natural Hazards and Earth System Science* Volume 11, Issue 10, 2011, Pages 2705-2714
25. Anagnostopoulou C. and **Tolika K.** (2012) Extreme precipitation in Europe: A guide to threshold selection. *Theoretical and Applied Climatology* 2012, 107, 479-489
26. **Tolika K.**, Zanis P. and Anagnostopoulou C. (2012) Regional climate change scenarios for Greece: Future temperature and Precipitation projections from Ensembles of RCMs. *Global Nest Journal*, Vol14, No4, pp. 407-421
27. Goodess CM, Anagnostopoulou C, Bårdossy A, Frei C, Harpham C, Haylock MR, Hundercha Y, Maheras P, Ribalaygue J, Schmidli J, Schmith T, **Tolika K**, Tomozeiu R, Wilby RL., (2006). An intercomparison of statistical downscaling methods for Europe and European regions- assessing their performance with respect to extreme temperature and precipitation events. *Published as CUR RP11 in 2012, University of East Anglia, CRU Research Publication series*, pp. 68.
28. Anagnostopoulou, C., Zanis, P., Katragkou, E., Tegoulis, I., Tolika, K. Recent past and future patterns of the Etesian winds based on regional scale climate model simulations (2014) *Climate Dynamics*, 42 (7-8), pp. 1819-1836
29. **Tolika, K.**, Maheras, P., Pytharoulis, I., Anagnostopoulou, C. The anomalous low and high temperatures of 2012 over Greece - An explanation from a meteorological and climatological perspective (2014) *Natural Hazards and Earth System Sciences*, 14 (3), pp. 501-507
30. Rousi, E., Anagnostopoulou, C., **Tolika, K.**, Maheras, P. Representing teleconnection patterns over Europe: A comparison of SOM and PCA methods (2015) *Atmospheric Research*, 152, pp. 123-137
31. **Tolika, K.**, Anagnostopoulou, C., Velikou, K., Vagenas, C. A comparison of the updated very high resolution model RegCM3_10km with the previous version RegCM3_25km over the complex terrain of Greece: present and future projections (2016) *Theoretical and Applied Climatology*, 126 (3-4), pp. 715-726.
32. Makris, C., Galiatsatou, P., **Tolika, K.**, Anagnostopoulou, C., Kombiadou, K., Prinos, P., Velikou, K., Kapelonis, Z., Tragou, E., Androulidakis, Y., Athanassoulis, G., Vagenas, C., Tegoulis, I., Baltikas, V., Krestenitis, Y., Gerostathis, T., Belibassakis, K., Rusu, E. Climate change effects on the marine characteristics of the Aegean and Ionian Seas (2016) *Ocean Dynamics*, 66 (12), pp. 1603-1635.
33. Vagenas C., Anagnostopoulou C., **Tolika K.** (2017) Climatic study the marine surface wind field over the Greek Seas with the use of a high resolution RCM focusing on extreme winds. *Climate* 2017, 5, 29; doi:10.3390/cli5020029).
34. Maheras P, **Tolika K**, Anagnostopoulou C, Kolyva-Machaira F (2017) Evolution Des Méthodes D'analyse Des Types De Temps Et Des Types De Circulation En Grèce Durant Les 60 Dernières Années. *BSGLg*, 68, 2017, 109-118.
35. **Tolika K.**, Maheras P., Anagnostopoulou C. (2017) The exceptionally wet year of 2014 over Greece: A statistical and synoptical – atmospheric analysis over the region of Thessaloniki. *Theoretical and Applied Climatology*. Volume 132, Issue 3-4, 1 May 2018, Pages 809-821.
36. Anagnostopoulou C, **Tolika K**, Lazoglou G and Maheras P (2017) The Exceptionally Cold January of 2017 over the Balkan Peninsula: A Climatological and Synoptic Analysis. *Atmosphere* 2017, 8, 252; doi:10.3390/atmos8120252.
37. Tsoka S, **Tolika K**, Theodosiou T, Tsikaloudaki K (2017) Evaluation of stochastically generated datasets for building energy simulation. *Energy Procedia* 122 (2017) 853–858.
38. Skoulikaris C, Ganoulis J, **Tolika K**, Anagnostopoulou C, Velikou K (2017) Assessment of agriculture reclamation projects with the use of regional climate models. *Water Utility Journal* 16: 7-16.
39. Panagiotisz Maheras, **Konsztandia Tolika**, Ioannis Tegoúlias, Hrisztina Anagnostopoúlou, Károssy Csaba, Klicasz Szpirosz (2017): Cirkulációs típusok automatikus és empirikus osztályozásának összehasonlítása magyarországi adatok alapján. *IDOJARAS Journal*, Léghor, 61, évfolyam, 2017, 60-66.
40. P. Maheras, **K. Tolika**, C. Anagnostopoulou, L. Makra, K. Szpirosz, C. Károssy (2018) Relationship between mean and extreme precipitation and circulation types over Hungary. *International Journal of Climatology*. DOI: 10.1002/joc.5684, Int J Climatol. 2018; 1–15.
41. S. Tsoka, **K. Tolika**, T. Theodosiou, K. Tsikaloudaki, D. Bikas (2018) A method to account for the urban microclimate on the creation of 'typical weather year' datasets for building energy simulation, using stochastically generated data. *Energy & Buildings* 165 (2018) 270–283.
42. **Tolika K** (2019) On the analysis of the temporal precipitation distribution over Greece using the Precipitation Concentration Index (PCI): annual, seasonal, monthly analysis and association with the atmospheric circulation. *Theoretical and Applied Climatology* <https://doi.org/10.1007/s00704-018-2736-6>. Volume 137, Issue 3–4, pp 2303–2319.
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