

List of Publications

Dr. E. Rousi

In peer-reviewed Journal Articles

1. Rezaei M, **Rousi E**, Ghasemifar E, Sadeghi A (2021): A study of dry spells in Iran based on satellite data and their relationship with ENSO. *Theoretical and Applied Climatology* <https://doi.org/10.1007/s00704-021-03607-y>
2. **Rousi E**, Selten F, Rahmstorf S, Coumou D (2021): Changes in North Atlantic atmospheric circulation in a warmer climate favor winter flooding and summer drought over Europe. *Journal of Climate* **34(6)**: 2277–2295 <https://doi.org/10.1175/JCLI-D-20-0311.1>
3. **Rousi E**, Rust HW, Ulbrich U, Anagnostopoulou C (2020): Implications of Winter NAO Flavors on Present and Future European Climate. *Climate* **8(1)**: 13. <https://doi.org/10.3390/cli8010013>
4. **Rousi E**, Ulbrich U, Rust HW, Anagnostopoulou C (2017): An NAO climatology in reanalysis data with the use of Self-Organizing Maps. in T. Karacostas, A. Bais and P. Nastos (eds.), *Perspectives in Atmospheric Sciences*, Springer Atmospheric Sciences, 10.1007/978-3-319-35095-0, Springer International Publishing Switzerland 2017, p. 719-724. https://link.springer.com/chapter/10.1007/978-3-319-35095-0_103
5. **Rousi E**, Anagnostopoulou C, Tolika K, Maheras P (2015): Representing Teleconnection Patterns over Europe: a comparison of SOM and PCA methods. *Atmospheric Research* **152**: 123-137. <https://doi.org/10.1016/j.atmosres.2013.11.010>
6. **Rousi E**, Mimis A, Stamou M, Anagnostopoulou C (2014): Classification of circulation types over Eastern Mediterranean using a Self Organizing Map approach. *Journal of Maps*, **10(2)**: 232-237. <https://doi.org/10.1080/17445647.2013.862747>

Scientific / Technical reports

7. **Rousi E**, Coumou D and Donner RV (2018): Atmospheric Teleconnections: Advanced Tools and Citizen Science. *Eos*, 99, <https://doi.org/10.1029/2018EO096591>. Published on 17 April 2018.
8. Maheras P (scientific responsible), Tolika K, Kostopoulou E, Anagnostopoulou C, Flocas H, Hatzaki M, Tegoulas I, **Rousi E** (2008): MILESTONES 4.3.5: Mediterranean extremes in RCM scenario runs summarised. ENSEMBLES Project final report (Project no. GOCE-CT-2003-505539), 84pp

In peer-reviewed Conference Proceedings

9. **Rousi E**, Anagnostopolou C, Mimis A, Stamou M (2015): Constrained clustering of the precipitation regime in Greece. In GISRUK 2015 Proceedings of the 23rd GIS Research UK Conference, Leeds, 15-17 April 2015, p. 553-558.
10. **Rousi E**, Anagnostopolou C, Mimis A, Stamou M (2014): Constrained clustering of winter precipitation in Greece. Proceedings of the 10th International Congress of the Hellenic Geographical Society, 22-24 October 2014, Thessaloniki, Greece, p.110-117.
11. **Rousi E**, Anagnostopolou C, Tolika K, Maheras P (2014): Effects of extreme teleconnection indices on climatic parameters over the Mediterranean: present and future simulations. 12th Conference of Meteorology, Climatology and Atmospheric Physics, Heraklion, 28-31 May 2014, p. 122-126.
12. **Rousi E**, Anagnostopolou C, Tolika K, Maheras P, Bloutsos A (2012): ECHAM5/MPI General Circulation Model Simulations of Teleconnection Indices over Europe. in C.G. Helmis and P. Nastos (eds.), *Advances in Meteorology, Climatology and Atmospheric Physics*, Springer Atmospheric Sciences, Springer-Verlag Berlin Heidelberg 2013, p. 709-715. https://doi.org/10.1007/978-3-642-29172-2_100
13. **Rousi E**, Tolika K, Anagnostopolou C, Maheras P (2010): Analysis of the frequency of daily precipitation series in Greece through the 21st century: future scenarios of a Regional Climate Model (RCM). 11th Greek Conference of Geography, Athens, 4-6 November 2010, p. 25-32.
14. Maheras P, Tolika K, **Rousi E** et Kolyva-Machera F (2010): Scénarios de changements des températures extrêmes en Grèce pour la fin du XXI^{ème} siècle: simulations futures par un modèle

- du projet 'ENSEMBLES', 23ième Colloque de l'Association Internationale de Climatologie, Rennes 2010, p. 361-366.
15. **Rousi E**, Tolika K, Anagnostopoulou C, Maheras P (2010): Scenarios of extreme temperature changes at the Eastern Mediterranean through the end of the 21st century (in Greek). 10th Conference of Meteorology, Climatology and Atmospheric Physics, Patra, 26-28 May 2010, p. 666-674.
 16. Tolika K, **Rousi E**, Anagnostopoulou C, Maheras P (2010): Analysis of the dry spells in the Peloponnesus region during the 21st century: future scenarios derived by an updated Regional Climate Model (RCM) (in Greek). 10th Conference of Meteorology, Climatology and Atmospheric Physics, Patra, 26-28 May 2010, p. 766-774.
 17. Maheras P, Tolika K, **Rousi E**, Kolyva-Machera F (2009): Analysis of the dry spells in the Thessaly region during the 21st century: future scenarios derived from an updated Regional Climate Model (RCM) (in Greek). 11th Conference of Hellenic Hydraulic Union, Volos, 27-30 May 2009, Volume1, p. 11-18.
 18. **Rousi E**, Anagnostopoulou C, Tolika K (2008): Contribution to the study of temperature regime in the Mediterranean using a Regional Climate Model (in Greek). 9th Conference of Meteorology, Climatology and Atmospheric Physics, Thessaloniki, 28-31 May 2008, p. 489-496.
 19. Feidas H, Iosifides T, **Rousi E** (2007): Correlation of migration and climate in Greece (in Greek). 1st Conference of the School of Social Sciences of the University of the Aegean, Mitilene, 31 March-2 April 2006, p. 67-75

Abstracts in Conference Proceedings

20. **Rousi E**, Kornhuber K, Beobide Arsuaga G, Luo F, Coumou D (2021): Increased frequency of Eurasian double jets linked to summer heat extremes in Europe. 2021 vEGU General Assembly, Online, 19-30 April 2021. <https://meetingorganizer.copernicus.org/EGU21/EGU21-10104.html>
21. Riboldi J, **Rousi E**, D'Andrea F, Rivière G, Lott F (2021): A spectral perspective on the existence of hemispheric circulation regimes. 2021 vEGU General Assembly, Online, 19-30 April 2021. <https://meetingorganizer.copernicus.org/EGU21/EGU21-13579.html>
22. Di Capua, Kornhuber K, **Rousi E**, Sparrow S, Wallom D, Coumou D (2020): Wave-resonance fingerprint in the 2010 summer: a modelling experiment. 2020 EGU General Assembly, Vienna, Austria, 3-8 May 2020. <https://meetingorganizer.copernicus.org/EGU2020/EGU2020-16003.html>
23. **Rousi E**, Coumou D, Rahmstorf S, Griffies S (2019): Summer North Atlantic SST and atmospheric circulation patterns in a changing climate. Presented at 2019 EGU General Assembly, Vienna, Austria, 7-12 April 2019. <https://meetingorganizer.copernicus.org/EGU2019/EGU2019-13419.pdf>
24. **Rousi E**, Coumou D, Rahmstorf S, Griffies S (2018): Occurrence of North Atlantic SST and atmospheric circulation patterns in a changing climate. Poster to be presented at SPARC General Assembly 2018, Kyoto, Japan, 1-5 October 2018.
25. **Rousi E**, Kretschmer M, Lehmann J, Totz S, Coumou D (2018): Identifying remote drivers of Mediterranean rainfall using Machine learning and Causal discovery tools. To be presented at Medclivar 2019 Conference, Belgrade, Serbia, 17-21 September 2018.
26. **Rousi E**, Coumou D, Ulbrich U (2018): Summer NAO flavors and their effects on climate over Europe and North America. Presented at 2018 EGU General Assembly, Vienna, Austria, 9-13 April 2018. <https://meetingorganizer.copernicus.org/EGU2018/EGU2018-15995.pdf>
27. **Rousi E**, Rahmstorf S, Coumou D (2017): North Atlantic SST patterns and NAO flavors. Presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 December 2017. <http://adsabs.harvard.edu/abs/2017AGUFM.A52E..08R>
28. **Rousi E**, Rust HW, Ulbrich U (2016): NAO variations and climate change signals from a Self-Organizing Map perspective. German-Austrian-Swiss Meteorology-Conference DACH, 14-18 March 2016, Berlin, Germany. <http://meetingorganizer.copernicus.org/DACH2016/DACH2016-158.pdf>
29. **Rousi E**, Anagnostopoulou C, Tolika K, Maheras P (2014): Present and future of teleconnection patterns affecting the climate of the Mediterranean region. In "Our Climate - Our Future;

Regional perspectives on a global challenge: International REKLIM Conference", 6-9 October 2014, Umweltforum Auferstehungskirche, Berlin, Germany: Programme and abstracts. (Terra Nova; 2014/1) / P. Lemke , K. Grosfeld , R. Treffeisen and M. Weigelt (editors), Potsdam, Terra Nostra, 125 p., ISBN: 0946-8978., p. 39-40.

30. **Rousi E**, Anagnostopoulou Ch, Tolika K, Kostopoulou E, Maheras P (2010): Future estimations of precipitation in the Balkan Peninsula with the use of a Regional Climate Model. XIX Congress of the Carpathian-Balkan Geological Association, Thessaloniki, 23-26 October 2010, Abstracts Volume, p. 339-340.

Monographs

31. **Rousi E** (2014): Estimation of future climate change in the Mediterranean using Regional Climate Models (in Greek), Ph.D. in Climatology, Department of Meteorology and Climatology, Aristotle University of Thessaloniki.
32. **Rousi E** (2008): Contribution to the study of temperature regime in the Mediterranean using a Regional Climate Model (in Greek), Master Thesis in Meteorology, Climatology and Atmospheric Environment, Department of Meteorology and Climatology, Aristotle University of Thessaloniki.
33. **Rousi E** (2005): Correlation of migration and climate in Greece (in Greek). Bachelor Thesis, School of Geography, University of the Aegean.