

PUBLICATIONS LIST Eleni Xoplaki, PhD

<https://orcid.org/0000-0002-2745-2467>

ISI Web of Science
(access May 2023)

Google Scholar
(access May 2023)

Peer reviewed publications	100	All	Since 2018
Sum of the times cited	10958	Citations	14390
		h-index	51
h-index	51	i10-index	81
			75

Peer reviewed publications (including submitted and in review)

Newfield, T.P., N. Roberts, I. Labuhn, W. Eastwood, H. Elton, D. Fleitmann, I. Izdebski, J. Luterbacher, A. Rosen, and E. **Xoplaki**, 2023: Proxies for Plague? New Approaches in Studying the Causes and Consequences of the First Plague Pandemic, in press.

Luterbacher, J., E. **Xoplaki**, D. Fleitmann, and A. Izdebski, 2023: Palaeoclimatic conditions during the Byzantium (AD 300-1500) in the Central and Eastern Mediterranean. In: Izdebski A. and J. Preiser-Kapeller (Eds.) *A Companion to the Environmental History of Byzantium*, Brill, in press.

1. Zittis, G., M. Almazroui, P. Alpert, P. Ciais, W. Cramer, Y. Dahdal, M. Fnais, D. Francis, P. Hadjinicolaou, F. Howari, A. Jrrar, D. G. Kaskaoutis, M. Kulmala, G. Lazoglou, N. Mihalopoulos, X. Lin, Y. Rudich, J. Sciare, G. Stenchikov, E. **Xoplaki**, and J. Lelieveld, 2022: Climate change and weather extremes in the Eastern Mediterranean and Middle East. *Rev. Geophys.*, <https://doi.org/10.1029/2021RG000762>
2. Behr, L., N. Luther, S.A. Josey, J. Luterbacher, S. Wagner, and E. **Xoplaki**, 2022: On the representation of Mediterranean overflow waters in global climate models. *J. Phys. Ocean.*, <https://doi.org/10.1175/JPO-D-21-0082.1>
3. Kuglitsch, M.M., I. Pelivan, S. Ceola, M. Menon, and E. **Xoplaki**, 2022: Facilitating adoption of AI in natural disaster management through collaboration. *Nat. Commun.* 13, 1579, <https://doi.org/10.1038/s41467-022-29285-6>
4. Ibebuchi, C.C., D. Schönbein, M. Adakudlu, E. Xoplaki, and H. Paeth, 2022. Comparison of three techniques to adjust daily precipitation biases from regional climate models over Germany. *Water* 14, 600, <https://doi.org/10.3390/w14040600>
5. Logothetis, I., S. Dafka, K. Tourpali, S. Misios, P. Zanis, E. **Xoplaki**, J. Luterbacher, and E. Papagianoulis, 2022: The Southeast Asian monsoon and El Niño–Southern Oscillation impact on the summer atmospheric circulation of East Mediterranean during 20th century based on ERA-20C and CMIP5 simulations. *Int. J. Climatol.*, <https://doi.org/10.1002/joc.7510>

6. Yuan, N., F. Xiong, E. **Xoplaki**, W. He, and J. Luterbacher, 2021: A new approach to correct the overestimated persistence in tree-ring width based precipitation reconstructions. *Clim. Dynam.*, <https://doi.org/10.1007/s00382-021-06024-z>.
7. Degroot, D., K. Anchukaitis, M. Bauch, J. Burnham, F. Carnegy, J. Cui, K. de Luna, P. Guzowski, G. Hambrecht, H. Huhtamaa, A. Izdebski, K. Kleemann, E. Moesswilde, N. Neupane, T. Newfield, Q. Pei, E. **Xoplaki**, and N. Zappia, 2021: Towards a Rigorous Understanding of Societal Responses to Climate Change. *Nature*, <https://doi.org/10.1038/s41586-021-03190-2>
8. Zhang, M., M.H. Tölle, E. Hartmann, E. **Xoplaki**, and J. Luterbacher. 2021: A sensitivity assessment of COSMO-CLM to different land cover schemes in convection-permitting climate simulations over Europe. *Atmosphere*, <https://doi.org/10.3390/atmos12121595>
9. Keller, M., C. Paulus, and E. **Xoplaki**, 2021: Die Justinianische Pest – Grenzen und Chancen naturwissenschaftlicher Ansätze für ein integratives Geschichtsverständnis. *Evangelische Theologie*, <https://doi.org/10.14315/evth-2021-810509>
10. **Xoplaki**, E., Luterbacher, J., Luther, N., Behr, L., Wagner, S., Jungclaus, J., Zorita, E., Toreti, A., Fleitmann, D., Izdebski, A., and Bloomfield, K. 2021: Hydrological changes in Late Antiquity: spatio-temporal characteristics and socio-economic impacts in the Eastern Mediterranean. In: Erdkamp, P., J. G. Manning, and K. Verboven (Eds.) *Climate Change and Ancient Societies in Europe and the Near East. Diversity in Collapse and Resilience*, Palgrave Studies in Ancient Economies, Palgrave MacMillan, https://doi.org/10.1007/978-3-030-81103-7_18
11. Bundo, M., E. de Schrijver, A. Federspiel, A. Toreti, E. **Xoplaki**, J. Luterbacher, O. H. Franco, T. Müller, and A. M. Vicedo-Cabrera, 2021. Ambient temperature and mental health hospitalizations in Bern, Switzerland: A 45-year time-series study, *PLOS One*, <https://doi.org/10.1371/journal.pone.0258302>.
12. Luterbacher, J., E. **Xoplaki**, D. Fleitmann, and A. Izdebski, 2021: Palaeoclimatic conditions during the Byzantium (AD 300-1500) in the Central and Eastern Mediterranean. In: Izdebski A. and J. Preiser-Kapeller (Eds.) *A Companion to the Environmental History of Byzantium*, Brill, in press.
13. Izdebski A., W. J. Eastwood, D. Fleitmann, J. F. Haldon, F. Ludlow, J. Luterbacher, J. Manning, A. Masi, L. Mordechai, T. Newfield, A. Stine, Ç. Şenkul, and E. **Xoplaki**, 2021: History, environment and interdisciplinarity: challenges and opportunities, *Annales. Histoire, Sciences Sociales*, in press.
14. Luterbacher, J., T. P. Newfield, E. Nowatzki, E. **Xoplaki**, N. Luther, M. Zhang, and N. Khelifi, 2020: Past pandemic disease and climate variability across the Mediterranean. *Euro-Mediterranean Journal for Environmental Integration*, <https://doi.org/10.1007/s41207-020-00197-5>
15. Skrynyk, O., J. Luterbacher, R. Allan, D. Boichuk, V. Sidenko, O. Skrynyk, A. Palarz, D. Oshurok, E. **Xoplaki**, and V. Osadchyi, 2020: Ukrainian early (pre-1850) historical weather observations, *Geoscience Data Journal*, <https://doi.org/10.1002/gdj3.108>
16. Dafka, S., D. Akritidis, P. Zanis, A. Pozzer, E. **Xoplaki**, J. Luterbacher, and C., Zerefos, 2021: On the link between the Etesian winds, tropopause folds and tropospheric ozone over the Eastern Mediterranean during summer, *Atmospheric Research*, <https://doi.org/10.1016/j.atmosres.2020.105161>
17. Palarz, A., J. Luterbacher, Z. Ustrnul, E. **Xoplaki**, and D. Celiński-Mysław, 2020: Representation of low-tropospheric temperature inversions in ECMWF reanalyses over Europe. *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/ab7d5d>

18. Esper, J., L. Klippel, P. J. Krusic, O. Konter, C. C. Raible, E. **Xoplaki**, J. Luterbacher, and U. Büntgen, 2019: Eastern Mediterranean summer temperatures since 730 CE from Mt. Smolikas tree-ring density data. *Climate Dynamics*, <https://doi.org/10.1007/s00382-019-05063-x>
19. Dafka, S., A. Toreti, P. Zanis, E. **Xoplaki**, and J. Luterbacher, 2019: Twenty-first-century changes in the mid-latitude atmospheric circulation and their connection to the eastern Mediterranean winds. *Journal of Geophysical Research-Atmospheres*, <https://doi.org/10.1029/2019JD031203>
20. Ljungqvist, F.C., A. Seim, P. J. Krusic, J. F. González-Rouco, J. P. Werner, E. R. Cook, E. Zorita, J. Luterbacher, E. **Xoplaki**, G. Destouni, E. García Bustamante, C. A. Melo-Aguilar, K. Seftigen, J. Wang, M. H. Gagen, D. Fleitmann, O. Solomina, J. Esper, and U. Büntgen, 2019: European warm-season temperature and hydroclimate since 850 CE, *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/ab2c7e>
21. Duan, J. P., Z. Ma, P. Wu, E. **Xoplaki**, G. Hegerl, L. Li, A. Schurer, and J. Luterbacher, 2019: Detection of human influences on temperature seasonality from the nineteenth century. *Nature Sustainability*, <https://doi.org/10.1038/s41893-019-0276-4>
22. Cramer, W., J. Guiot, M. Fader, J. Garrabou, J.-P. Gattuso, A. Iglesias, M.A. Lange, P. Lionello, M.C. Llasat, S. Paz, J. Peñuelas, M. Snoussi, A. Toreti, M.N. Tsimplis, and E. **Xoplaki**, 2018: Climate change and interconnected risks to sustainable development in the Mediterranean. *Nature Climate Change*, <https://doi.org/10.1038/s41558-018-0299-2>
23. Duan, J.P., L. Li, Z.G. Ma, J. Esper, U. Büntgen, E. **Xoplaki**, D. Zhang, L. Wang, H. Yin, and J. Luterbacher, 2018: Summer cooling driven by large volcanic eruptions over the Tibetan Plateau. *Journal of Climate*, <https://doi.org/10.1175/JCLI-D-17-0664.1>
24. Luterbacher, J., and E. **Xoplaki**, 2018: Palaeoclimatic conditions during the Hellenistic period in the Eastern Mediterranean. In: Zerefos, C.S. and M. V. Vardinoyannis (Eds.) *Hellenistic Alexandria: Celebrating 24 Centuries*, Archaeopress Archaeology, Oxford, UK, pp. 272-279, ISBN 9781789690675
25. **Xoplaki**, E., J. Luterbacher, S. Wagner, E. Zorita, F. Fleitmann, J.F. Haldon, J. Preiser-Kapeller, A. Sargent, A., Toreti, S. White, L. Mordechai, D. Bozkurt, S. Akçer, and A. Izdebski, 2018: Climate and societal resilience in the Eastern Mediterranean in the last millennium. *Human Ecology*, <https://doi.org/10.1007/s10745-018-9995-9>
26. Zhang, H., J.P. Werner, E. García-Bustamante, J.F. González-Rouco, S. Wagner, E. Zorita, K. Fraedrich, J. Jungclaus, X. Zhu, E. **Xoplaki**, F. Chen, J. Duan, Q. Ge, Z. Hao, M. Ivanov, S. Talento, L. Schneider, J. Wang, B. Yang, and J. Luterbacher, 2018: East Asian warm season temperature variations over the past two millennia. *Nature Scientific Reports*, <https://doi.org/10.1038/s41598-018-26038-8>
27. Yuan N.M., Y. Huang, J.P. Duan, C.W. Zhu, E. **Xoplaki**, and J. Luterbacher, 2018: On climate prediction: how much can we expect from climate memory? *Climate Dynamics*, <https://doi.org/10.1007/s00382-018-4168-5>
28. Dafka, S., A. Toreti, J. Luterbacher, P. Zanis, E. Tyrlis, and E. **Xoplaki**, 2018: Simulating extreme Etesians over the Aegean and Implications for wind energy production in southeastern Europe. *Journal of Applied Meteorology and Climatology*, <https://doi.org/10.1175/JAMC-D-17-0172.1>
29. Dafka, S., Toreti, A., Luterbacher, J., Zanis, P., Tyrlis, E., and E. **Xoplaki**, 2018: On the ability of RCMs to capture the circulation pattern of Etesians. *Climate Dynamics* <https://doi.org/10.1007/s00382-017-3977-2>

30. PAGES Hydrozck Consortium, including E. **Xoplaki**, 2017: Comparing data and model estimates of hydroclimate variability and change over the Common Era. *Climate of the Past*, <https://doi.org/10.5194/cp-13-1851-2017>
31. Duan, J., J. Esper, U. Büntgen, L. Li, E. **Xoplaki**, H. Zhang, L. Wang, Y. Fang, and J. Luterbacher, 2017: Weakening of annual temperature cycle over the Tibetan Plateau since the 1870s. *Nature Communications*, <https://doi.org/10.1038/ncomms14008>
32. Luterbacher, J. and coauthors, including E. **Xoplaki**, 2016: European summer temperatures since Roman times. *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/11/2/024001>
33. **Xoplaki**, E., D. Fleitmann, J. Luterbacher, S. Wagner, J. F. Haldon, E. Zorita, I. Telelis, A. Toreti and A. Izdebski, 2016. The Medieval Climate Anomaly and Byzantium: A review of the evidence on climatic fluctuations, economic performance and societal change. *Quaternary Science Reviews*, <https://doi.org/10.1016/j.quascirev.2015.10.004>
34. Holmgren, K., A. Gogou, A. Izdebski, J. Luterbacher, M.-A. Sicre and E. **Xoplaki**, 2016. Mediterranean Holocene climate, environment and human societies. *Quaternary Science Reviews*, <https://doi.org/10.1016/j.quascirev.2015.12.014>
35. Izdebski, A., K. Holmgren, E. Weiberg, S. R. Stocker, U. Büntgen, A. Florenzano, A. Gogou, S. A. G. Leroy, J. Luterbacher, B. Martrat, A. Masi, A. M. Mercuri, P. Montagna, L. Sadori, A. Schneider, M.-A. Sicre, M. Triantaphyllou and E. **Xoplaki**, 2016. Realising consilience: How better communication between archaeologists, historians and natural scientists can transform the study of past climate change in the Mediterranean. *Quaternary Science Reviews*, <https://doi.org/10.1016/j.quascirev.2015.10.038>
36. Gogou, A., M. Triantaphyllou, E. **Xoplaki**, A. Izdebski, C. Parinos, M. Dimiza, I. Bouloubassi, E. Kaberi, K. Kouli, J. Luterbacher, G. Rousakis, A. Athanasiou, and V. Lykousis, 2016: Climate variability and socio-environmental changes in the northern Aegean (NE Mediterranean) during the last 1500 years. *Quaternary Science Reviews*, <https://doi.org/10.1016/j.quascirev.2016.01.009>
37. Yuan, N., J. Luterbacher, C. Zu, and E. **Xoplaki**, 2016: A novel way to detect correlations on multi-time scales, with temporal evolution and for multi-variables. *Nature Science Reports*, <https://doi.org/10.1038/srep27707>
38. Incarbona, A., B. Martrat, P.G. Mortyn, M. Sprovieri, P. Ziveri, A. Gogou, G. Jordà, E. **Xoplaki**, J. Luterbacher, L. Langone, G. Marino, L. Rodríguez Sanz, M. Triantaphyllou, E. Di Stefano, J.O. Grimalt, G. Tranchida, R. Sprovieri, and S. Mazzola, 2016: Mediterranean circulation perturbations over the last five centuries: Relevance to past Eastern Mediterranean Transient-type events. *Nature Science Reports*, <https://doi.org/10.1038/srep29623>
39. Dafka, S., E. **Xoplaki**, A. Toreti, P. Zanis, E. Tyrlis, C. Zerefos, and J. Luterbacher, 2016: The Etesians; from observations to reanalysis. *Climate Dynamics*, <https://doi.org/10.1007/s00382-015-2920-7>
40. Schindler, A., A. Toreti, M. Zampieri, E. Scoccimarro, S. Gualdi, S. Fukutome, E. **Xoplaki**, and J. Luterbacher, 2015. On the internal variability of simulated daily precipitation. *Journal of Climate*, <https://doi.org/10.1175/JCLI-D-14-00745.1>
41. Yuan, N., Z. Fu, H. Zhang, L. Piao, E. **Xoplaki**, and J. Luterbacher, 2015: Detrended partial-cross-correlation analysis: a new method for analyzing correlations in complex systems. *Nature Science Reports*, <https://doi.org/10.1038/srep08143>
42. Yuan, N., M. Ding, Y. Huang, Z. Fu, E. **Xoplaki**, and J. Luterbacher, 2015: On the long-term climate memory in the surface temperature records in Antarctica: : A

- nonnegligible factor for trend evaluation. *Journal of Climate*, <https://doi.org/10.1175/JCLI-D-14-00733.1>
43. Zhang, H., N. Yuan, J. Esper, J.P. Werner, E. **Xoplaki**, U. Büntgen, K. Treydte and J. Luterbacher, 2015: Modified climate with long term memory in tree ring proxies. *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/10/8/084020>
 44. Haldon, J., N. Roberts, A. Izdebski, D. Fleitmann, M. McCormick, M. Cassis, O. Doonan, W. Eastwood, H. Elton, S. Ladstätter, S. Manning, J. Newhard, K. Nichol, I. Telelis, and E. **Xoplaki**, 2014: The climate and environment of Byzantine Anatolia: integrating science, history and archaeology. *The Journal of Interdisciplinary History*, https://doi.org/10.1162/JINH_a_00682
 45. Clarvis, M. H., S. Fatichi, A. Allan, J. Fuhrer, M. Stoffel, F. Romerio, L. Gaudard, P. Burlando, M. Beniston, E. **Xoplaki**, and A. Toreti, 2014: Governing and managing water resources under changing hydro-climatic contexts: The case of the upper Rhone basin. *Environmental Science & Policy*, <https://doi.org/10.1016/j.envsci.2013.11.005>
 46. Naveau, P., A. Toreti, I. Smith, and E. **Xoplaki**, 2014: A fast nonparametric spatio-temporal regression scheme for generalized Pareto distributed heavy precipitation. *Water Resources Research*, <https://doi.org/10.1002/2014WR015431>
 47. Toreti, A., P. Naveau, M. Zampieri, A. Schindler, E. Scoccimarro, E. **Xoplaki**, H. A. Dijkstra, S. Gualdi, and J. Luterbacher, 2013: Projections of global changes in precipitation extremes from Coupled Model Intercomparison Project Phase 5 models. *Geophysical Research Letters*, <https://doi.org/10.1002/grl.50940>
 48. Ulbrich, U., E. **Xoplaki**, S. Dobricic, R. García-Herrera, P. Lionello, M. Adani, M. Baldi, P. Coccimiglio, G. Dalu, D. Efthymiadis, M. Gaetani, M. B. Galati, L. Gimeno, C. M. Goodess, P. D. Jones, F. G. Kuglitsch, G. C. Leckebusch, J. Luterbacher, M. Marcos, R. Nieto, K. M. Nissen, D. Pettenuzzo, N. Pinardi, C. Pino, A. G. P. Shaw, P. Sousa, A. Toreti, R. M. Trigo, M. Tsimplis, and D. Barriopedro, 2013: Past and current climate changes in the Mediterranean region. In: Navarra, A., and L. Tubiana (Eds.), *Regional Assessment of Climate Change in the Mediterranean*. Advances in Global Change Research 50, Springer, Dordrecht, The Netherlands, pp. 9-51, https://doi.org/10.1007/978-94-007-5781-3_2
 49. Gualdi S., S. Somot, W. May, S. Castellari, M. Déqué, M. Adani, V. Artale, A. Bellucci, J. S. Breitgand, A. Carillo, R. Cornes, A. Dell'Aquila, C. Dubois, D. Efthymiadis, A. Elizalde, L. Gimeno, C. M. Goodess, A. Harzallah, S. O. Krichak, F. G. Kuglitsch, G. C. Leckebusch, B. L'Heveder, L. Li, P. Lionello, J. Luterbacher, A. Mariotti, R. Nieto, K. M. Nissen, P. Oddo, P. Ruti, A. Sanna, G. Sannino, E. Scoccimarro, F. Sevault, M. V. Struglia, A. Toreti, U. Ulbrich, and E. **Xoplaki**, 2013: Future Climate Projections. In: Navarra, A. and L. Tubiana (Eds.), *Regional Assessment of Climate Change in the Mediterranean*. Advances in Global Change Research 50, Springer, Dordrecht, The Netherlands, pp. 53-118, https://doi.org/10.1007/978-94-007-5781-3_3
 50. Toreti, A., F. G. Kuglitsch, E. **Xoplaki**, and J. Luterbacher, 2012: A novel approach for the detection of inhomogeneities affecting climate time series. *Journal of Applied Meteorology and Climatology*, <https://doi.org/10.1175/JAMC-D-10-05033.1>
 51. Lelieveld, J., P. Hadjinicolaou, E. Kostopoulou, J. Chenoweth, M. El Maayar, C. Giannakopoulos, C. Hannides, M. A. Lange, M. Tanarhte, E. Tyrlis, and E. **Xoplaki**, 2012: Climate change and impacts in the Eastern Mediterranean and the Middle East. *Climatic Change*, <https://doi.org/10.1007/s10584-012-0418-4>
 52. Garcia-Bustamante, E., J. F. González-Rouco, J. Navarro, E. **Xoplaki**, P. A. Jiménez, and J. P. Montávez, 2012: North Atlantic atmospheric circulation and surface wind in

- the Northeast of the Iberian Peninsula: uncertainty and long term downscaled variability. *Climate Dynamics*, <https://doi.org/10.1007/s00382-010-0969-x>
53. García-Bustamante, E., J. F. González-Rouco, J. Navarro, E. Xoplaki, J. Luterbacher, P. A. Jiménez, J. P. Montávez, A. Hidalgo and E. E. Lucio-Eceiza, 2012: Relationship between wind power production and North Atlantic atmospheric circulation over the northeastern Iberian Peninsula. *Climate Dynamics*, <https://doi.org/10.1007/s00382-012-1451-8>
 54. Lionello, P., F. Abrantes, L. Congedi, F. Dulac, M. Gacic, D. Gomis, C. Goodess, H. Hoff, S. Planton, K. Schröder, M. V. Struglia, M. Tsimplis, and E. Xoplaki, 2012: Mediterranean climate: background information. In: Lionello, P. (Ed.), *The Climate of the Mediterranean Region. From the past to the future*. Elsevier, Amsterdam, The Netherlands, <https://doi.org/10.1016/B978-0-12-416042-2.00012-4>
 55. Luterbacher, J., R. García-Herrera, A. R. Allan, M. C. Alvarez-Castro, G. Benito, J. Booth, U. Büntgen, D. Colombaroli, B. Davis, J. Esper, T. Felis, D. Fleitmann, D. Frank, D. Gallego, E. Garcia-Bustamante, J. F. González-Rouco, H. Goosse, T. Kiefer, M. G. Macklin, P. Montagna, L. Newman, M. J. Power, V. Rath, P. Ribera, N. Roberts, S. Silenzi, W. Tinner, B. Valero-Garces, G. van der Schrier, B. Vannière, H. Wanner, J. P. Werner, G. Willett, E. Xoplaki, C. S. Zerefos, and E. Zorita, 2012: A review of 2000 years of paleoclimatic evidence in the Mediterranean. In: Lionello, P. (Ed.), *The Climate of the Mediterranean Region. From the past to the future*. Elsevier, Amsterdam, The Netherlands. <https://doi.org/10.1016/B978-0-12-416042-2.00002-1>
 56. Xoplaki, E., R. M. Trigo, R. García-Herrera, D. Barriopedro, F. D'Andrea, E. M. Fischer, L. Gimeno, C. Gouveia, E. Hernandez, F. G. Kuglitsch, A. Mariotti, R. Nieto, J. G. Pinto, D. Pozo-Vázquez, H. Saaroni, A. Toreti, I. F. Trigo, S. M. Vicente-Serrano, P. Yiou, and B. Ziv, 2012: Large-scale atmospheric circulation driving extreme climate events in the Mediterranean. In: Lionello, P. (Ed.), *The Climate of the Mediterranean Region. From the past to the future*. Elsevier, Amsterdam, The Netherlands, <https://doi.org/10.1016/B978-0-12-416042-2.00006-9>
 57. Ulbrich, U., P. Lionello, D. Belušić, J. Jacobeit, P. Knippertz, H. Kutiel, F. G. Kuglitsch, G. C. Leckebusch, J. Luterbacher, M. Maugeri, K. M. Nissen, V. Pavan, J. G. Pinto, H. Saaroni, S. Seubert, A. Toreti, E. Xoplaki, and B. Ziv, 2012: Synoptic climatology of the Mediterranean and trends. In: Lionello, P. (Ed.), *The Climate of the Mediterranean Region. From the past to the future*. Elsevier, Amsterdam, The Netherlands, <https://doi.org/10.1016/B978-0-12-416042-2.00005-7>
 58. Roberts, N., A. Moreno, B. L. Valero-Garcés, J. P. Corella, M. Jones, S. Allcock, J. Woodbridge, M. Morellón, J. Luterbacher, E. Xoplaki, and M. Türkeş, 2012: Palaeolimnological evidence for an east–west climate see-saw in the Mediterranean since AD 900. *Global and Planetary Change*, <https://doi.org/10.1016/j.gloplacha.2011.11.002>
 59. Diaz, H. F., R. Trigo, M. K. Hughes, M. E. Mann, E. Xoplaki, and D. Barriopedro, 2011: Spatial and temporal characteristics of climate in Medieval Times Revisited. *Bulleting of the American Meteorological Society*, <https://doi.org/10.1175/BAMS-D-10-05003.1>
 60. Chenoweth, J., P. Hadjinicolaou, A. Bruggeman, J. Lelieveld, Z. Levin, M. A. Lange, E. Xoplaki, and M. Hadjikakou, 2011: The impact of climate change on the water resources of the eastern Mediterranean and Middle East region: modeled 21st century changes and implications. *Water Resources Research*, <https://doi.org/10.1029/2010WR010269>

61. Hegerl, G., J. Luterbacher, J. F. González-Rouco, S. F. B. Tett, T. Crowley, and E. **Xoplaki**, 2011: Influence of human and natural forcing on European seasonal temperatures. *Nature Geoscience*, <https://doi.org/10.1038/ngeo1057>
62. Aerni, P., B. Boie, T. Cottier, K. Holzer, D. Jost, B. Karapinar, S. Matteotti, O. Nartova, T. Payosova, L. Rubini, A. Shingal, F. Temmerman, E. **Xoplaki**, and S. Z. Bigdeli, 2011: Climate Change and International Law: Exploring the Linkages between Human Rights, Environment, Trade and Investment. *German Yearbook of International Law / Jahrbuch für Internationales Recht* 53, pp. 140-189, Duncker & Humblot, Berlin, <https://doi.org/10.3790/978-3-428-53622-1>
63. Toreti, A., F. G. Kuglitsch, E. **Xoplaki**, J. Luterbacher, and H. Wanner, 2010: A Novel Method for the Homogenization of Daily Temperature Series and Its Relevance for Climate Change Analysis. *Journal of Climate*, <https://doi.org/10.1175/2010JCLI3499.1>
64. Toreti, A., E. **Xoplaki**, D. Maraun, F. G. Kuglitsch, H. Wanner, and J. Luterbacher, 2010: Characterisation of extreme winter precipitation in Mediterranean coastal sites and associated anomalous atmospheric circulation patterns. *Natural Hazards and Earth System Sciences*, <https://doi.org/10.5194/nhess-10-1037-2010>
65. Toreti, A., F. G. Kuglitsch, E. **Xoplaki**, P. M. Della-Marta, E. Aguilar, M. Prohom, and J. Luterbacher, 2011: A note on the use of the standard normal homogeneity test to detect inhomogeneities in climatic time series. *International Journal of Climatology*, <https://doi.org/10.1002/joc.2088>
66. Kuglitsch, F. G., A. Toreti, E. **Xoplaki**, P. M. Della-Marta, C. S. Zerefos, M. Türkes, and J. Luterbacher, 2010: Heat wave changes in the eastern Mediterranean since 1960. *Geophysical Research Letters*, <https://doi.org/10.1029/2009GL041841>
67. Luterbacher, J., E. **Xoplaki**, M. Küttel, E. Zorita, J. F. González-Rouco, P. D. Jones, M. Stössel, T. Rutishauser, H. Wanner, J. Wibig, and R. Przybylak, 2010: Climate change in Poland in the past centuries and its relationship to European climate: Evidence from reconstructions and coupled climate models. In: Przybylak *et al.* (Eds.), *The Polish Climate in the European Context: An Historical Overview*, pp. 3-39, https://doi.org/10.1007/978-90-481-3167-9_1
68. Luterbacher, J., S. J. Koenig, J. Franke, G. van der Schrier, E. Zorita, A. Moberg, J. Jacobeit, P. M. Della-Marta, M. Küttel, E. **Xoplaki**, D. Wheeler, T. Rutishauer, M. Stössel, H. Wanner, R. Brázdil, P. Dobrovolný, D. Camuffo, C. Bertolin, A. van Engelen, J. F. González-Rouco, R. Wilson, Ch. Pfister, D. Limanówka, Ø. Nordli, L. Leijonhufvud, J. Söderberg, R. Allan, M. Barriendos, R. Glaser, D. Riemann, Z. Hao, C. S. Zerefos, 2010: Circulation dynamics and its influence on European and Mediterranean January-April climate over the past half millennium: results and insights from instrumental data, documentary evidence and coupled climate models. *Climatic Change*, <https://doi.org/10.1007/s10584-009-9782-0>
69. Camuffo, D., C. Bertolin, M. Barriendos, F. Dominguez, C. Cocheo, S. Enzi, M. Sghedoni, A. della Valle, E. Garnier, M.-J. Alcoforado, E. **Xoplaki**, J. Luterbacher, N. Diodato, M. Maugeri, M. F. Nunes, and R. Rodriguez, 2010: 500-year temperature reconstruction in the Mediterranean Basin by means of documentary data and instrumental observations. *Climatic Change*, <https://doi.org/10.1007/s10584-010-9815-8>
70. Küttel, M., E. **Xoplaki**, D. Gallego, J. Luterbacher, R. García-Herrera, R. Allan, M. Barriendos, P. D. Jones, D. Wheeler, and H. Wanner, 2010: The importance of ship log data: reconstructing North Atlantic, European and Mediterranean sea level pressure fields back to 1750. *Climate Dynamics*, <https://doi.org/10.1007/s00382-009-0577-9>

71. Kuglitsch, F. G., A. Toreti, E. **Xoplaki**, P. M. Della-Marta, J. Luterbacher, and H. Wanner, 2009: Homogenization of daily maximum temperature series in the Mediterranean. *Journal of Geophysical Research-Atmospheres*, <https://doi.org/10.1029/2008JD011606>
72. Jones, P. D., K. R. Briffa, T. J. Osborn, J. M. Lough, T. D. van Ommen, B. M. Vinther, J. Luterbacher, E. Wahl, F. W. Zwiers, G. A. Schmidt, C. Ammann, M. E. Mann, B. M. Buckley, K. Cobb, J. Esper, H. Goosse, N. Graham, E. Jansen, T. Kiefer, C. Kull, M. Küttel, E. Mosley-Thompson, J. T. Overpeck, N. Riedwyl, M. Schulz, S. Tudhope, R. Villalba, H. Wanner, E. Wolff, and E. **Xoplaki**, 2009: High-resolution paleoclimatology of the last millennium: a review of current status and future prospects. *The Holocene*, <https://doi.org/10.1177/0959683608098952>
73. Brönnimann, S., E. **Xoplaki**, C. Casty, A. Pauling, and J. Luterbacher, 2007: ENSO influence on Europe during the last centuries. *Climate Dynamics*, <https://doi.org/10.1007/s00382-006-0175-z>
74. Della-Marta, P. M., J. Luterbacher, H. von Weissenfluh, E. **Xoplaki**, M. Brunet, and H. Wanner, 2007: Summer heat waves over western Europe 1880-2003, their change and relationship to large scale forcings. *Climate Dynamics*, <https://doi.org/10.1007/s00382-007-0233-1>
75. Küttel, M., J. Luterbacher, E. Zorita, E. **Xoplaki**, N. Riedwyl, and H. Wanner, 2007: Testing a European winter surface temperature reconstruction in a surrogate climate. *Geophysical Research Letters*, <https://doi.org/10.1029/2006GL027907>
76. Luterbacher, J., M. A. Liniger, A. Menzel, N. Estrella, P. M. Della-Marta, C. Pfister, T. Rutishauser, and E. **Xoplaki**, 2007: The exceptional European warmth of Autumn 2006 and Winter 2007: Historical context, the underlying dynamics and its phenological impacts. *Geophysical Research Letters*, <https://doi.org/10.1029/2007GL029951>
77. Esper, J., D. C. Frank, U. Büntgen, A. Verstege, J. Luterbacher, and E. **Xoplaki**, 2007: Long-term drought severity variations in Morocco. *Geophysical Research Letters*, <https://doi.org/10.1029/2007GL030844>
78. **Xoplaki**, E., J. Luterbacher, and J. F. González-Rouco, 2006: Mediterranean summer temperature and winter precipitation, large-scale dynamics, trends. *Il Nuovo Cimento*, <https://doi.org/10.1393/ncc/i2005-10220-4>
79. Ansell, T., P. D. Jones, R. J. Allan, D. Lister, D. E. Parker, M. Brunet-India, A. Moberg, J. Jacobeit, P. Brohan, N. Rayner, E. Aguilar, H. Alexandersson, M. Barriendos, R. Brázdil, T. Brandsma, N. Cox, P. M. Della-Marta, A. Drebs, D. Founda, F. Gerstengarbe, K. Hickey, T. Jonsson, J. Luterbacher, O. Nordli, H. Oesterle, M. Rodwell, O. Saladie, J. Sigro, V. C. Slonosky, L. Srnec, A. Suarez, H. Tuomenvirta, X. Wang, H. Wanner, P. C. Werner, D. Wheeler, and E. **Xoplaki**, 2006: Daily mean sea level pressure reconstructions for the European - North Atlantic region for the period 1850-2003. *Journal of Climate*, <https://doi.org/10.1175/JCLI3775.1>
80. Goosse, H., O. Arzel, J. Luterbacher, M.E. Mann, H. Renssen, N. Riedwyl, A. Timmermann, E. **Xoplaki**, and H. Wanner, 2006: The origin of the European "Medieval Warm Period". *Climate of the Past*, <https://doi.org/10.5194/cp-2-99-2006>
81. Lionello, P., P. Malanotte-Rizzoli, R. Boscolo, P. Alpert, V. Artale, L. Li, J. Luterbacher, W. May, R.M. Trigo, M. Tsimplis, U. Ulbrich, and E. **Xoplaki**, 2006: The Mediterranean climate: An overview of the main characteristics and issues. In: Lionello *et al.* (Eds.), *The Mediterranean Climate: an overview of the main characteristics and issues*. Elsevier, Amsterdam, The Netherlands, pp. 1-26, [https://doi.org/10.1016/S1571-9197\(06\)80003-0](https://doi.org/10.1016/S1571-9197(06)80003-0)

82. Luterbacher, J., E. **Xoplaki**, C. Casty, H. Wanner, A. Pauling, M. Küttel, T. Rutishauser, S. Brönnimann, E. Fischer, D. Fleitmann, F. J. González-Rouco, R. García-Herrera, M. Barriendos, F. Rodrigo, J. C. Gonzalez-Hidalgo, M. A. Saz, L. Gimeno, P. Ribera, M. Brunet, H. Paeth, N. Rambu, T. Felis, J. Jacobeit, A. Dünkeloh, E. Zorita, J. Guiot, M. Türkeş, M.-J. Alcoforado, R. Trigo, D. Wheeler, S. Tett, M. E. Mann, R. Touchan, D. T. Shindell, S. Silenzi, P. Montagna, D. Camuffo, A. Mariotti, T. Nanni, M. Brunetti, M. Maugeri, C. S. Zerefos, S. De Zolt, and P. Lionello, 2006: Mediterranean climate variability over the last centuries: A review. In: Lionello *et al.* (Eds.), *The Mediterranean Climate: an overview of the main characteristics and issues*. Elsevier, Amsterdam, The Netherlands, pp. 27-148, [https://doi.org/10.1016/S1571-9197\(06\)80004-2](https://doi.org/10.1016/S1571-9197(06)80004-2)
83. Alpert, P., M. Baldi, R. Ilani, S. Krichak, C. Price, X. Rodo, H. Saaroni, B. Ziv, P. Kischka, J. Barkan, A. Mariotti, and E. **Xoplaki**, 2006: Relations between climate variability in the Mediterranean region and the tropics: ENSO, South Asian and African monsoons, hurricanes and Saharan dust. In: Lionello *et al.* (Eds.), *The Mediterranean Climate: an overview of the main characteristics and issues*. Elsevier, Amsterdam, The Netherlands, pp. 149-177, [https://doi.org/10.1016/S1571-9197\(06\)80005-4](https://doi.org/10.1016/S1571-9197(06)80005-4)
84. Trigo, R., E. **Xoplaki**, E. Zorita, J. Luterbacher, S. Krichak, P. Alpert, J. Jacobeit, J. Saenz, J. Fernandez, J. F. González-Rouco, R. García-Herrera, X. Rodo, M. Brunetti, T. Nanni, M. Maugeri, M. Türkeş, L. Gimeno, P. Ribera, M. Brunet, I. Trigo, M. Crepon, and A. Mariotti, 2006: Relations between variability in the Mediterranean region and mid-latitude variability. In: Lionello *et al.* (Eds.), *The Mediterranean Climate: an overview of the main characteristics and issues*. Elsevier, Amsterdam, The Netherlands, pp. 179-226, [https://doi.org/10.1016/S1571-9197\(06\)80006-6](https://doi.org/10.1016/S1571-9197(06)80006-6)
85. Moberg, A., P. D. Jones, D. Lister, A. Walther, L. Alexander, M. Brunet, D. Chen, P. M. Della-Marta, J. Jacobeit, J. Luterbacher, P. Yiou, A. Klein Tank, H. A. C. Almaraz, I. Auer, M. Barriendos, H. Bergström, R. Böhm, J. Butler, J. Caesar, A. Drebs, D. Founda, F. W. Gerstengarbe, M. Giusi, T. Jónsson, M. Maugeri, H. Österle, K. Pandzic, M. Petrakis, L. Srnec, R. Tolasz, H. Tuomenvirta, P. C. Werner, H. Wanner, and E. **Xoplaki**, 2006: Indices for daily temperature and precipitation extremes in Europe analysed for the period 1901-2000. *Journal of Geophysical Research-Atmospheres*, <https://doi.org/10.1029/2006JD007103>
86. Wanner, H., M. Grosjean, R. Röthlisberger, and E. **Xoplaki**, 2006: Climate variability, predictability and climate risks: a European perspective. *Climatic Change*, <https://doi.org/10.1007/s10584-006-9155-x>
87. **Xoplaki**, E., J. Luterbacher, H. Paeth, D. Dietrich, N. Steiner, M. Grosjean, and H. Wanner, 2005: European spring and autumn temperature variability and change of extremes over the last half millennium. *Geophysical Research Letters*, <https://doi.org/10.1029/2005GL023424>
88. Touchan, R., E. **Xoplaki**, G. Funkhouser, J. Luterbacher, M. K. Hughes, N. Erkan, Ü. Akkemik, and J. Stephan, 2005: Reconstructions of spring/summer precipitation for the Eastern Mediterranean from tree-ring widths and its connection to large-scale atmospheric circulation. *Climate Dynamics*, <https://doi.org/10.1007/s00382-005-0016-5>
89. Casty, C., D. Handorf, C. C. Raible, J. F. González-Rouco, E. **Xoplaki**, J. Luterbacher, A. Weisheimer, K. Dethloff, and H. Wanner, 2005: Recurrent climate winter regimes in reconstructed and modeled 500 hPa geopotential height fields over the North-Atlantic/European sector 1659-1990. *Climate Dynamics*, <https://doi.org/10.1007/s00382-004-0496-8>

90. **Xoplaki**, E., J. F. González-Rouco, J. Luterbacher, and H. Wanner, 2004: Wet season Mediterranean precipitation variability: influence of large-scale dynamics and trends. *Climate Dynamics*, <https://doi.org/10.1007/s00382-004-0422-0>
91. Luterbacher, J., D. Dietrich, E. **Xoplaki**, M. Grosjean, and H. Wanner, 2004: European seasonal and annual temperature variability, trends and extremes since 1500 A.D. *Science*, <https://doi.org/10.1126/science.1093877>
92. Wanner, H., C. Beck, R. Brázdil, C. Casty, M. Deutsch, R. Glaser, J. Jacobeit, J., Luterbacher, C. Pfister, S. Pohl, K. Sturm, P.C. Werner, and E. **Xoplaki**, 2004: Dynamic and Socioeconomic Aspects of Historical Floods in Central Europe. *Erdkunde*, <https://doi.org/10.3112/erdkunde.2004.01.01>
93. **Xoplaki**, E., J. F. González-Rouco, J. Luterbacher, and H. Wanner, 2003: Mediterranean summer air temperature variability and its connection to the large scale atmospheric circulation and SSTs. *Climate Dynamics*, <https://doi.org/10.1007/s00382-003-0304-x>
94. **Xoplaki**, E., J. F. González-Rouco, D. Gyalistras, J. Luterbacher, R. Rickli, and H. Wanner, 2003: Interannual summer air temperature variability over Greece and its connection to the large-scale atmospheric circulation and Mediterranean SSTs 1950-1999. *Climate Dynamics*, <https://doi.org/10.1007/s00382-002-0291-3>
95. Luterbacher J., Xoplaki E. (2003) 500-year winter temperature and precipitation variability over the Mediterranean area and its connection to the large-scale atmospheric circulation. In: Bolle H. J. (Ed.) *Mediterranean Climate. Regional Climate Studies*. Springer, Berlin, Heidelberg, https://doi.org/10.1007/978-3-642-55657-9_7
96. Luterbacher, J., E. **Xoplaki**, D. Dietrich, P. D. Jones, T. D. Davies, D. Portis D. Gyalistras, C. Schmutz, C. Casty, and H. Wanner, 2002: Extending NAO Reconstructions back to AD 1500. *Atmospheric Science Letters*, <https://doi.org/10.1006/asle.2002.0047>
97. Wanner, H., S. Brönnimann, C. Casty, D. Gyalistras, J. Luterbacher, C. Schmutz, and E. **Xoplaki**, 2002: North Atlantic Oscillation - Concepts and Studies. *Surveys in Geophysics*, <https://doi.org/10.1023/A:1014217317898>
98. **Xoplaki**, E., P. Maheras, and J. Luterbacher, 2001: Variability of climate in meridional Balkans during the periods 1675-1715 and 1780-1830 and its impact on human life. *Climatic Change*, <https://doi.org/10.1023/A:1005616424463>
99. Luterbacher, J., R. Rickli, E. **Xoplaki**, C. Tinguely, C. Beck, C. Pfister, and H. Wanner, 2001: The Late Maunder Minimum (1675-1715) - a key Period for studying decadal scale climatic change in Europe. *Climatic Change*, <https://doi.org/10.1023/A:1010667524422>
100. Luterbacher, J., E. **Xoplaki**, D. Dietrich, R. Rickli, J. Jacobeit, C. Beck, D. Gyalistras, C. Schmutz, and H. Wanner, 2001: Reconstruction of Sea Level Pressure fields over the Eastern North Atlantic and Europe back to AD 1500. *Climate Dynamics*, <https://doi.org/10.1007/s00382-001-0196-6>
101. Luterbacher, J., R. Rickli, C. Tinguely, E. **Xoplaki**, E. Schuepbach, D. Dietrich, J. Hüsler, M. Ambühl, C. Pfister, P. Beeli, U. Dietrich, A. Dannecker, T. D. Davies, P. D. Jones, V. Slonosky, A. E. J. Ogilvie, P. Maheras, F. Kolyva-Machera, J. Martin-Vide, M. Barriendos, M.-J. Alcoforado, F. Nunez, T. Jónsson, R. Glaser, J. Jacobeit, C. Beck, A. Philipp, U. Beyer, E. Kaas, T. Schmith, L. Bärring, P. Jónsson, L. Rácz, and H. Wanner, 2000: Monthly mean pressure reconstruction for the Late Maunder Minimum Period (AD 1675-1715). *International Journal of Climatology*, [https://doi.org/10.1002/1097-0088\(200008\)20:10<1049::AID-JOC521>3.0.CO;2-6](https://doi.org/10.1002/1097-0088(200008)20:10<1049::AID-JOC521>3.0.CO;2-6)

102. Schmutz C., J. Luterbacher, D. Gyalistras, E. **Xoplaki**, and H. Wanner, 2000: Can we trust proxy-based NAO index reconstructions? *Geophysical Research Letters*, <https://doi.org/10.1029/1999GL011045>
103. **Xoplaki**, E., J. Luterbacher, R. Burkard, I. Patrikas, and P. Maheras, 2000: Connection between the large scale 500 hPa geopotential height fields and precipitation over Greece during winter time. *Climate Research*, <https://doi.org/10.3354/cro14129>
104. Luterbacher, J., C. Schmutz, D. Gyalistras, E. **Xoplaki**, and H. Wanner, 1999: Reconstruction of monthly NAO and EU indices back to AD 1675. *Geophysical Research Letters*, <https://doi.org/10.1029/1999GL900576>
105. Maheras, P., E. **Xoplaki**, and H. Kutiel, 1999: Wet and dry, monthly anomalies across the Mediterranean basin and their relationship with circulation, 1860-1990. *Theoretical and Applied Climatology*, <https://doi.org/10.1007/s007040050122>
106. Maheras, P., E. **Xoplaki**, T. D. Davies, J. Martin-Vide, M. Barriendos, and M.-J. Alcoforado, 1999: Warm and cold monthly anomalies across the Mediterranean basin and their relationship with circulation; 1860-1990. *International Journal of Climatology*, [https://doi.org/10.1002/\(SICI\)1097-0088\(199912\)19:15<1697::AID-JOC442>3.0.CO;2-S](https://doi.org/10.1002/(SICI)1097-0088(199912)19:15<1697::AID-JOC442>3.0.CO;2-S)