

Interactive comment on "Documentary data and the study of the past droughts: an overview of the state of the art worldwide" *by* Rudolf Brázdil et al.

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Dear authors, I believe you missed some relevant references about studies on past drought, mostly from Europe. A synthesis can be found in: Stahl, K., Tallaksen, L.M. and Hannaford, J. (2018): Ch. 1.2 Recent Trends in Historical Drought, In: Iglesias, A., Assimacopoulos, D. and Van Lanen, H.A.J. (Eds.) (2018): Drought: Science and Policy. Wiley Blackwell, 258 pg. (https://www.wiley.com/ennl/Drought:+Science+and+Policy-p-9781119017073). I suggest to read the following:

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BARD, A., RENARD, B., LANG, M., GIUNTOLI, I., KORCK, J., KOBOLTSCHNIG, G., JANZA, M, D'AMICO, M., AND VOLKEN, D. (2015). Trends in the hydrologic regime of Alpine rivers. Journal of Hydrology, 529, 1823-1837. Doi: 10.1016/j.jhydrol.2015.07.052 COCH A., AND MEDIERO, L. (2016) Trends in low flows in Spain in the period 1949-2009. Hydrological Sciences Journal, 21: 568-584. 10.1080/02626667.2015.1081202 DAI, A. Increasing Drought Under Global Warming In Observations And Models. Nature Clim. Change 3, 52-58 (2013). FOL-LAND, C. K., HANNAFORD, J., BLOOMFIELD, J. P., KENDON, M., SVENSSON, C., MARCHANT, B. P., PRIOR, J., AND WALLACE, E. (2015) Multi-annual droughts in the English lowlands: a review of their characteristics and climate drivers in the winter half-year, Hydrol. Earth Syst. Sci., 19, 2353-2375, doi:10.5194/hess-19-2353-2015. GUDMUNSSON, L., AND SENEVIRATNE, S. I. (2015) European Drought Trends. IAHS, 369, 75-79. HANNAFORD, J., AND MARSH, T. J. (2006) an assessment of trends in UK runoff and low flows using a network of undisturbed catchments, Int. J. Climatol. 26, 1237-1253. DOI: 10.1002/JOC.1303 HANNAFORD, J., BUYS, G., STAHL, K., AND TALLAKSEN, L.M. (2013) The influence of decadal-scale variability on trends in long European streamflow records, Hydrol. Earth Syst. Sci., 17,2717-2733, DOI:10.5194/HESS-17-2717-2013. KINGSTON, D.G., STAGGE, J.H., TALLAKSEN, L.M., AND HANNAH, D.M. (2015) European-scale drought: understanding connections between atmospheric circulation and meteorological drought indices. J. Climate, 28, 505-516. DOI: 10.1175/JCLI-D-14-00001.1 NASR A., AND BRUEN M. (2017). Detection of trends in the 7- day sustained low-flow time series of Irish rivers, Hydrological Sciences Journal, DOI: 10.1080/02626667.2016.1266361 ORLOWSKY, B., AND SENEVIRATNE, S.I. (2013). Elusive Drought: Uncertainty In Observed Trends And Short- And Long-Term Cmip5 Projections, Hydrol. Earth Syst. Sci., 17, 1765-1781. SHEFFIELD, J., WOOD, E.F. AND RODERICK, M.L. (2012). Little Change In Global Drought Over The Past 60 Years. Nature 491, 435-438. SPINONI, J., NAU-MANN, G., AND VOGT, J. (2015). Spatial Patterns Of European Droughts Under A Moderate Emission Scenario. Adv. Sci. Res., 12, 179-186. SPINONI, J., NAUMANN,

G., AND VOGT, J.V. (2017). Pan-European seasonal trends and recent changes of drought frequency and severity. Global and Planetary Change, 148, 113-130. DOI: 10.1016/J.GLOPLACHA.2016.11.013 STAGGE, J.H., KINGSTON, D., TALLAKSEN, L.M., AND HANNAH, D. (2016). Diverging Trends Between Meteorological Drought Indices (SPI and SPEI). Geophysical Research Abstracts, VOL. 18, EGU2016-10703-1, 2016. STAHL, K., HISDAL, H., HANNAFORD, J., TALLAKSEN, L.M., VAN LA-NEN, H.A.J., SAUQUET, E., DEMUTH, S., FENDEKOVA M., AND JODAR, J. (2010). Streamflow trends in Europe: evidence from a dataset of near-natural catchments, Hydrol. Earth Syst. Sci. 14. p. 2367-2382. STAHL K., TALLAKSEN L.M., HANNAFORD J., AND VAN LANEN H.A.J. (2012). Filling the white space on maps of European runoff trends: estimates from a multi-model ensemble. Hydrol. Earth Syst. Sci. Discuss. 9. p. 2005-2032. STAHL, K., VIDAL, J.P., HANNAFORD, J., PRUDHOMME, C., LAAHA, G., TALLAKSEN, L. (2014) Synthesizing changes in low flows from observations and models across scales. In Daniell, T.M., Van Lanen, H.A.J., Demuth, S., Laaha, G., Servat, E., Mahe, G., Boyer, J-F, Paturel, J-E, Dezetter, A., Ruelland, D. (Eds.). Hydrology in a Changing World: Environmental and Human Dimensions. 30-35. IAHS Publ. No. 363. Stahl, K., Kohn, I., Blauhut, V., Urquijo, J., De Stefano, L., Acácio, V., Dias, S., Stagge, J. H., Tallaksen, L. M., Kampragou, E., Van Loon, A. F., Barker, L. J., Melsen, L. A., Bifulco, C., Musolino, D., de Carli, A. , Massarutto, A., Assimacopoulos, D., Van Lanen, H. A. J. (2016) Impacts of European drought events: insights from an international database of text-based reports Nat. Hazards Earth Syst. Sci., 16: 801-819. TALLAKSEN, L.M., STAGGE, J.H., STAHL, K., GUDMUNDSSON, L., ORTH, R., SENEVIRATNE, S.I., VAN LOON, A.F. AND VAN LANEN, H.A.J. (2015): Characteristics and drivers of drought in Europe – a summary of the DROUGHT-R&SPI project. In: Andreu, J. et al. (Eds.) Drought: Research and Science-Policy Interfacing. CRC/Balkema Publishers. VICENTE-SERRANO, S. M, LOPEZ-MORENO, J.I., BE-GUERIA, S., LORENZO-LACRUZ, J., SANCHEZ-LORENZO, A., GARCIA-RUIZ, J.M., AZORIN-MOLINA, C., MORAN-TEJEDA, E., REVUELTO, J., TRIGO, R., (2014) Evidence of increasing drought severity caused by temperature rise in southern Europe.

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Environmental Research Letters, 9, 044001. doi:10.1088/1748-9326/9/4/044001.

Dear Dr. Van Lanen, We would like to thank you very much for your interest in our paper in Climate of the Past Discussion. You provide a really comprehensive and exciting list of papers devoted to droughts from a hydrological point of view. These should surely be cited in a standard paper dealing with droughts based on instrumental data. However, that is not the focus of this article. As is mentioned on page 2, lines 37-39 ("The aim of this article is to present the state of the art for spatio-temporal analyses of droughts derived from documentary evidence for a special issue of the Climate of the Past entitled "Droughts over the centuries: What can documentary evidence tell us about drought variability, severity and human responses."), our overview paper concentrates only on droughts which are identified based either completely or at least partly on documentary data (see the list in Section 2). We checked all of the papers you listed and did not find any that are based/working on/with documentary data in the sense of the definitions in Section 2. Once again, we express our great appreciation to your effort related to collection of all above references. With many thanks, the team of authors

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