

4.2 Use and dissemination of foreground

Section A (public)

Publications

LIST OF SCIENTIFIC PUBLICATIONS, STARTING WITH THE MOST IMPORTANT ONES

No.	Title / DOI	Main author	Title of the periodical or the series	Number, date or frequency	Publisher	Place of publication	Date of publication	Relevant pages	Is open access provided to this publication ?	Type
1	Exploring the link between drought indicators and impacts 10.5194/nhess-d-2-7583-2014	S. Bachmair , I. Kohn , K. Stahl	Natural Hazards and Earth System Science	Vol. 2/Issue 12	European Geosciences Union		01/01/2014	7583-7620	Yes	Peer reviewed
2	Investigation of variable threshold level approaches for hydrological drought identification 10.5194/hessd-11-12765-2014	B. S. Beyene , A. F. Van Loon , H. A. J. Van Lanen , P. J. J. F. Torfs	Natural Hazards and Earth System Science	Vol. 11/Issue 11	European Geosciences Union		01/01/2014	12765-12797	Yes	Peer reviewed
3	Towards pan-European drought risk maps: quantifying the link between drought indices and reported drought impacts 10.1088/1748-9326/10/1/014008	Veit Blauhut , Lukas Gudmundsson , Kerstin Stahl	Environmental Research Letters	Vol. 10/Issue 1	Institute of Physics Publishing		01/01/2015	014008	Yes	Peer reviewed
4	Western Mediterranean precipitation over the last 300 years from instrumental observations 10.1007/s10584-012-0539-9	D. Camuffo , C. Bertolin , N. Diodato , C. Cocheo , M. Barriendos , F. Dominguez-Castro , E. Garnier , M. J. Alcoforado , M. F. Nunes	Climatic Change	Vol. 117/Issue 1-2	Springer Netherlands	Netherlands	01/03/2013	85-101	Yes	Peer reviewed

5	Predicting above normal wildfire activity in southern Europe as a function of meteorological drought 10.1088/1748-9326/9/8/084008	L Gudmundsson, F C Rego, M Rocha, S I Seneviratne	Environmental Research Letters	Vol. 9/Issue 8	Institute of Physics Publishing		01/08/2014	084008	Yes	Peer reviewed
6	Attribution of European precipitation and temperature trends to changes in circulation types 10.5194/hessd-11-12799-2014	A. K. Fleig, L. M. Tallaksen, P. James, H. Hisdal, K. Stahl	Hydrology and Earth System Sciences	Vol. 11/Issue 11	European Geosciences Union		01/01/2014	12799-12831	Yes	Peer reviewed
7	The future for global water assessment 10.1016/j.jhydrol.2014.05.014	Richard J. Harding, Graham P. Weedon, Henny A.J. van Lanen, Douglas B. Clark	Journal of Hydrology	Vol. 518	Elsevier	Netherlands	01/10/2014	186-193	Yes	Peer reviewed
8	A Model for Solving the Optimal Water Allocation Problem in River Basins with Network Flow Programming When Introducing Non-Linearities 10.1007/s11269-012-0129-7	D. Haro, J. Paredes, A. Soleira, J. Andreu	Water Resources Management	Vol. 26/Issue 14	Springer Netherlands	Netherlands	01/11/2012	4059-4071	Yes	Peer reviewed
9	Methodology for Drought Risk Assessment in Within-year Regulated Reservoir Systems. Application to the Orbigo River System (Spain) 10.1007/s11269-014-0710-3	David Haro, Abel Solera, Javier Paredes, Joaquín Andreu	Water Resources Management	Vol. 28/Issue 11	Springer Netherlands	Netherlands	01/09/2014	3801-3814	Yes	Peer reviewed
10	Ocean-Atmosphere Forcing of Summer Streamflow Drought in Great Britain http://dx.doi.org/10.1175/JHM-D-11-0100.1	Daniel G. Kingston, Anne K. Fleig, Lena M. Tallaksen, David M. Hannah	Journal of Hydrometeorology	Vol. 14/Issue 1	American Meteorological Society	United States	01/02/2013	331-344	Yes	Peer reviewed
11	European-Scale Drought: Understanding Connections between Atmospheric Circulation and Meteorological Drought Indices 10.1175/JCLI-D-14-00001.1	Daniel G. Kingston, James H. Stagge, Lena M. Tallaksen, David M. Hannah	Journal of Climate	Vol. 28/Issue 2	American Meteorological Society	United States	01/01/2015	505-516	Yes	Peer reviewed

12	Development of operating rules for a complex multi-reservoir system by coupling genetic algorithms and network optimization 10.1080/02626667.2013.779777	N. Lerma , J. Paredes- Arquiola , J. Andreu , A. Solera	Hydrological Sciences Journal/Journal des Sciences, Hydrologiques	Vol. 58/Issue 4	Taylor and Francis Ltd.	United Kingdom	01/05/2013	797-812	Yes	Peer reviewed
13	Assessment of evolutionary algorithms for optimal operating rules design in real Water Resource Systems http://dx.doi.org/10.1016/j.envsoft.2014.09.024	Néstor Lerma , Javier Paredes-Arquiola , Joaquín Andreu , Abel Solera , Giovanni M. Sечи	Environmental Modelling and Software	Vol. 69	Elsevier BV	Netherlands	01/07/2015	425-436	Yes	Peer reviewed
14	Evolutionary network flow models for obtaining operation rules in multi-reservoir water systems 10.2166/hydro.2013.151	Néstor Lerma , Javier Paredes-Arquiola , Jose-Luis Molina , Joaquín Andreu	Journal of Hydroinformatics	Vol. 16/Issue 1	IWA Publishing	United Kingdom	01/01/2014	33	Yes	Peer reviewed
15	Adapting water accounting for integrated water resource management. The Júcar Water Resource System (Spain) http://dx.doi.org/10.1016/j.jhydrol.2014.10.002	Andrea Momblanch , Joaquín Andreu , Javier Paredes- Arquiola , Abel Solera , María Pedro-Monzonis	Journal of Hydrology	Vol. 519	Elsevier	Netherlands	01/11/2014	3369-3385	Yes	Peer reviewed
16	Managing water quality under drought conditions in the Llobregat River Basin 10.1016/j.scitotenv.2014.06.069	Andrea Momblanch , Javier Paredes-Arquiola , Antoni Munné , Andreu Manzano , Javier Arnau , Joaquín Andreu	Science of the Total Environment	Vol. 503-504	Elsevier	Netherlands	01/01/2015	300-318	Yes	Peer reviewed
17	Integration of research advances in modeling and monitoring in support of WFD river basin management planning in the context of climate change http://dx.doi.org/10.1016/j.scitotenv.2014.06.069	Philippe Quevauviller , Damia Barceló , Martin Beniston , Slobodan Djodjic	Science of the Total Environment	Vol. 440	Elsevier	Netherlands	01/12/2012	167-177	Yes	Peer reviewed

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18	Elusive drought: uncertainty in observed trends and short- and long-term CMIP5 projections 10.5194/hess-17-1765-2013	B. Orlowsky , S. I. Seneviratne	Hydrology and Earth System Sciences	Vol. 17/Issue 5	European Geosciences Union		01/01/2013	1765-1781	Yes	Peer reviewed
19	Today's virtual water consumption and trade under future water scarcity 10.1088/1748-9326/9/7/074007	B Orlowsky , A Y Hoekstra , L Gudmundsson , Sonia I Seneviratne	Environmental Research Letters	Vol. 9/Issue 7	Institute of Physics Publishing		01/07/2014	074007	Yes	Peer reviewed
20	Inferring Soil Moisture Memory from Streamflow Observations Using a Simple Water Balance Model 10.1175/JHM-D-12-099.1	Rene Orth , Randal D. Koster , Sonia I. Seneviratne	Journal of Hydrometeorology	Vol. 14/Issue 6	American Meteorological Society	United States	01/12/2013	1773-1790	Yes	Peer reviewed
21	Using soil moisture forecasts for sub-seasonal summer temperature predictions in Europe 10.1007/s00382-014-2112-x	René Orth , Sonia I. Seneviratne	Climate Dynamics	Vol. 43/Issue 12	Springer Verlag	Germany	01/12/2014	3403-3418	Yes	Peer reviewed
22	Introduction of a simple-model-based land surface dataset for Europe 10.1088/1748-9326/10/4/044012	Rene Orth , Sonia I Seneviratne	Environmental Research Letters	Vol. 10/Issue 4	Institute of Physics Publishing		01/04/2015	044012	Yes	Peer reviewed
23	Does model performance improve with complexity? A case study with three hydrological models 10.1016/j.jhydrol.2015.01.044	Rene Orth , Maria Staudinger , Sonia I. Seneviratne , Jan Seibert ,	Journal of Hydrology	Vol. 523	Elsevier	Netherlands	01/04/2015	147-159	Yes	Peer reviewed

		Massimiliano Zappa								
24	Key issues for determining the exploitable water resources in a Mediterranean river basin http://dx.doi.org/10.1016/j.scitotenv.2014.07.042	María Pedro-Monzonís, Javier Ferrer, Abel Solera, Teodoro Estrada, Javier Pairedes-Arquiolá	Science of the Total Environment	Vol. 503-504	Elsevier	Netherlands	01/01/2015	319-328	Yes	Peer reviewed
25	Candidate Distributions for Climatological Drought Indices (SPI and SPEI) 10.1002/joc.4267	James H. Stagge, Lena M. Tallaksen, Lukas Gudmundsson, Anne F. Van Loon, Kerstin Stahl	International Journal of Climatology	35/7	John Wiley and Sons Ltd	United Kingdom	01/02/2015	n/a-n/a	Yes	Peer reviewed
26	Filling the white space on maps of European runoff trends: estimates from a multi-model ensemble 10.5194/hess-16-2035-2012	K. Stahl, L. M. Tallaksen, J. Hannaford, H. A. J. van Lanen	Hydrology and Earth System Sciences	Vol. 16/Issue 7	European Geosciences Union		01/01/2012	2035-2047	Yes	Peer reviewed
27	A generic method for hydrological drought identification across different climate regions 10.5194/hess-16-2437-2012	M. H. J. van Huijgevoort, P. Hazenberg, H. A. J. van Lanen, R. Uijlenhoet	Hydrology and Earth System Sciences	Vol. 16/Issue 8	European Geosciences Union		01/01/2012	2437-2451	Yes	Peer reviewed
28	Global Multimodel Analysis of Drought in Runoff for the Second Half of the Twentieth Century 10.1175/JHM-D-12-0186.1	M. H. J. van Huijgevoort, P. Hazenberg, H. A. J. van Lanen, A. J. Teuling, D. B. Clark, S. Folwell, S. N. Gosling, N. Hanasaki, J. Heinke, S. Koirala, T. S. Stacked, F. Voss, J. Sheffield, R. Uijl	Journal of Hydrometeorology	Vol. 14/Issue 5	American Meteorological Society	United States	01/10/2013	1535-1552	Yes	Peer reviewed

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29	Identification of changes in hydrological drought characteristics from a multi-GCM driven ensemble constrained by observed discharge 10.1016/j.jhydrol.2014.02.060	M.H.J. van Huijgevoort, H.A.J. van Lanen, A.J. T euling, R. Uij lenhoet	Journal of Hydrology	Vol. 512	Elsevier	Netherlands	01/05/2014	421-434	Yes	Peer reviewed
30	Hydrological drought across the world: impact of climate and physical catchment structure 10.5194/hess-17-1715-2013	H. A. J. Van Lanen, N. W anders, L. M. Tallakse n, A. F. Van Loon	Hydrology and Earth System Sciences	Vol. 17/Issue 5	European Geosciences Union		01/01/2013	1715-1732	Yes	Peer reviewed
31	A process-based typology of hydrological drought 10.5194/hess-16-1915-2012	A. F. Van Loon, H. A. J. Van Lanen	Hydrology and Earth System Sciences	Vol. 16/Issue 7	European Geosciences Union		01/01/2012	1915-1946	Yes	Peer reviewed
32	Evaluation of drought propagation in an ensemble mean of large-scale hydrological models 10.5194/hess-16-4057-2012	A. F. Van Loon, M. H. J. Van Huijgevoort, H. A. J. Van Lanen	Hydrology and Earth System Sciences	Vol. 16/Issue 11	European Geosciences Union		01/01/2012	4057-4078	Yes	Peer reviewed
33	Hydrological drought typology: temperature-related drought types and associated societal impacts 10.5194/hessd-11-10465-2014	A. F. Van Loon, S. W. Ploum, J. P arajka, A. K. Fleig, E. Garnier, G. L aaha, H. A. J. Van Lanen	Hydrology and Earth System Sciences	Vol. 11/Issue 9	European Geosciences Union		01/01/2014	10465-10514	Yes	Peer reviewed
34	Making the distinction between water scarcity and drought using an observation-modeling framework 10.1002/wrcr.20147	A. F. Van Loon, H. A. J. Van Lanen	Water Resources Research	Vol. 49/Issue 3	American Geophysical Union	United States	01/03/2013	1483-1502	Yes	Peer reviewed
35	Hydrological drought severity explained by climate and catchment characteristics doi.org/10.1016/j.jhydrol.2014.10.059	A.F. Van Loon, G. L aaha	Journal of Hydrology	Vol. 526	Elsevier	Netherlands	01/07/2015	3-14	Yes	Peer reviewed
36	How climate seasonality modifies drought duration and deficit 10.1002/2013JD020383	A. F. Van Loon, E. Tjeldeman, N. Wanders, H. A. J. Van Lane	Astronomy and Geophysics	Vol. 119/Issue 8	Blackwell Publishing		27/04/2014	4640-4656	Yes	Peer reviewed

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37	Future discharge drought across climate regions around the world modelled with a synthetic hydrological modelling approach forced by three general circulation models 10.5194/nhess -15-487-2015	N. Wanders , H. A. J. Van Lanen	Natural Hazards and Earth System Science	Vol. 15/Issue 3	European Geosciences Union	Germany	01/01/2015	487-504	Yes	Peer reviewed
38	Global hydrological droughts in the 21st century under a changing hydrological regime 10.5194/esd-6 -1-2015	N. Wanders , Y. Wada , H. A. J. Van Lanen	Earth System Dynamics	Vol. 6/Issue 1	Copernicus Gesellschaft mbH	Germany	01/01/2015	1-15	Yes	Peer reviewed
39	Probabilistic analysis of hydrological drought characteristics using meteorological drought 10.1080/02626667.2012.753147	G. Wong , H.A.J. van Lanen , P.J.J. F. Torfs	Hydrological Sciences Journal/Journal des Sciences, Hydrologiques	Vol. 58/Issue 2	Taylor and Francis Ltd.	United Kingdom	01/02/2013	253-270	Yes	Peer reviewed
40	Drought and exceptional laws in Spain: the official water discourse 10.1007/s10784-015-9275-8	Julia Urquijo , Lucia De Stefano , Abel La Calle	International Environmental Agreements: Politics, Law and Economics	15/58	Springer Netherlands	Netherlands	23/04/2015	1573-1553	Yes	Peer reviewed
41	Social capacities for drought risk management in Switzerland	Kruse, S. & Seidl, I.	Natural Hazards and Earth System Science	13/12	European Geosciences Union		01/07/2013	3429-3441	Yes	Peer reviewed
42	Social capacities for drought risk management in Switzerland	Kruse, S. & Seidl, I.	Natural Hazards and Earth System Science	13/12	European Geosciences Union		01/07/2013	3429-3441	Yes	Peer reviewed
43	Spatial and temporal patterns of large-scale droughts in Europe: Model dispersion and performance 10.1002/2013GL058573	Lena M. Tallaksen , Kerstin Stahl	Geophysical Research Letters	Vol. 41/Issue 2	American Geophysical Union	United States	28/01/2014	429-434	Yes	Peer reviewed
44	Influence of model structure on base flow estimation using BILAN FRIER and HBV-light models	Machlica, A., Horvát, O., Horacek, S., Oosterwijk, J., Van Loon, A.F., Fendeková, M. & Van Lanen, H.A.J.	Vodohospodarsky Casopis/Journal of Hydrology and Hydromechanics	60/4	Slovak Academy of Sciences		02/07/2012	242-251	Yes	Peer reviewed
	Vulnerability to drought: Mapping underl	M Ballesteros	Drought: Research and Science-Policy Int	2015	CRC Press		13/02/2015	361	Yes	Article