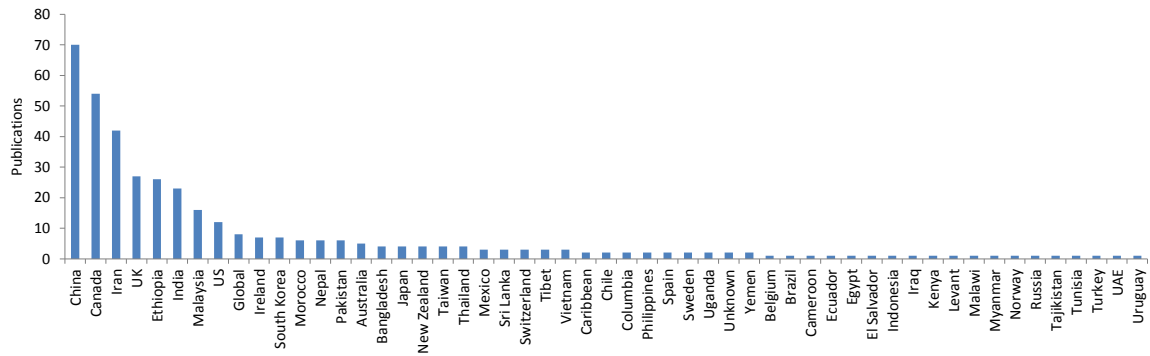# Statistical DownScaling Model (SDSM) publications
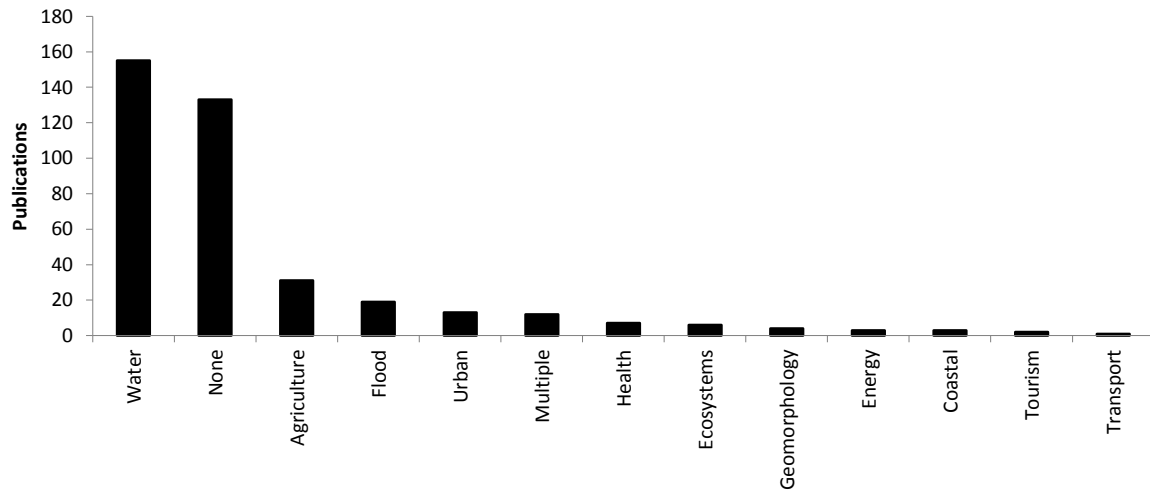
Updated to 22 December 2016

Meta-analysis of publications (*N* = 389)
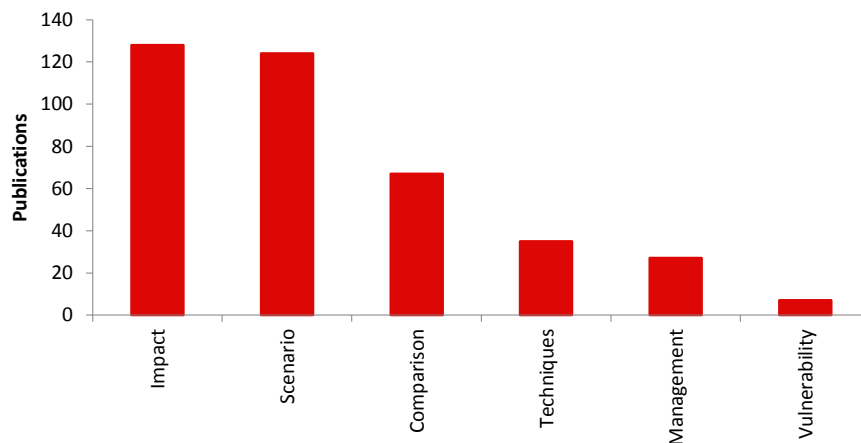
(a) Country of study

(b) Primary sector of the study

(c) Type of use of SDSM in the study

Bibliography

Abbasnia, M. and Toros, H. 2016. Future changes in maximum temperature using the statistical downscaling model (SDSM) at selected stations of Iran. Modeling Earth Systems and Environment, 2, 1-7.

Abbasnia, M., Tavousi, T. and Khosravi, M. 2016. Assessment of future changes in the maximum temperature at selected stations in Iran based on HADCM3 and CGCM3 models. Asia-Pacific Journal of Atmospheric Sciences, 52, 371-377.

Abdel-Fattah, S.L. 2012. DownScaling the Great Lakes: Techniques for adaptive policy. Unpublished PhD Thesis, McMaster University, Ontario, Canada, 236pp.

Abdo, K.S., Fiseha, B.M., Rientjes, T.H.M., Gieske, A.S.M. and Haile, A.T. 2009. Assessment of climate change impacts on the hydrology of Gilgel Abay catchment in Lake Tana basin, Ethiopia. Hydrological Processes, 23, 3661-3669.

Abkar, A. and Habibnajad, M. 2014. Sensitivity of the Statistical Downscaling Model (SDSM) to reanalysis data in arid areas. Arid Biome Scientific and Research Journal, 4, 11-27.

Abkar, A., Habibnajad, M., Solaimani, K. and Naghavi, H. 2014. Investigation efficiency SDSM miodel to simulate temperature indexes in arid and semi-arid regions. Iranian Journal of Irrigation and Water Engineering, 4, 1-17.

Abraham, L.Z. 2006. Climate change impact on Lake Ziway watershed water availability, Ethiopia. Unpublished MSc Thesis, University of Applied Sciences, Cologne, pp123.

Adem, A.A., Melesse, A.M., Tilahun, S.A., Setegn, S.G., Ayana, E.K., Wale, A. and Assefa, T.T. 2014. Climate change projections in the Upper Gilgel Abbay River catchment, Bule Nile Basin Ethiopia. In: Melesse, A.M., Abtew, W. and Setgn, S.G. (eds.) Nile River Basin, Chapter 19, 363-388. Springer, Switzerland.

Adhikari, T.R. and Devkota, L.P. 2016. Climate Change and Hydrological Responses in Himalayan Basins, Nepal. In Climate Change, Glacier Response, and Vegetation Dynamics in the Himalaya (pp. 65-85). Springer International Publishing.

Adimo, O.A., Bosco, N.J. and Leonard, W. 2011. Net primary productivity response to climate change in the Mount Kenya ecosystem. In: Filho, W.L. (ed.) Experiences of Climate Change Adaptation in Africa. Chapter 14, Springer.

Afrooz, A.H., Akbari, H., Rakhshandehroo, G.R. and Pourtouiserkani, A. 2015. Climate Change Impact on Probable Maximum Precipitation in Chenar-Rahdar River Basin. Watershed Management, 2015, 36-47.

Aguilar, M.Y., Pacheco, T.R., Tobar, J.M. and Quiñónez, J.C. 2009. Vulnerability and adaptation to climate change of rural inhabitants in the central coastal plain of El Salvador. Climate Research, 40, 187-198.

Aherne, J., Futter, M.N. and Dillon, P.J. 2008. The impacts of future climate change and sulphur emission reductions on acidification recovery at Plastic Lake, Ontario. Hydrology and Earth System Sciences, 12, 383-392.

Ahmadi, A., Moridi, A., Lafdani, E.K. and Kianpisheh, G. 2014. Assessment of climate change impacts on rainfall using large scale climate variables and downscaling models - a case study. Journal of Earth System Science, 123, 1603-1618.

Akbari, H., Rakhshandehroo, G.R., Afrooz, A.H. and Pourtouiserkani, A. 2015. Climate Change Impact on Intensity-Duration-Frequency Curves in Chenar-Rahdar River Basin. ASCE Watershed Management 2015, 48-61.

Amirabadizadeh, M., Ghazali, A.H., Huang, Y.F. and Wayayok, A.. 2016. Downscaling daily precipitation and temperatures over the Langat River Basin in Malaysia: A comparison of two statistical downscaling approaches. International Journal of Water Resources and Environmental Engineering, 8,120-136.

Andargachew, M., 2015. Impact of Climate Change on Hydrological Responses of Gumara Catchment, in the Lake Tana Basin-Upper Blue Nile Basin of Ethiopia. Masters Thesis, Addis Abbaba University, Ethiopia.

Appiah-Adjei, E.K. and Allen, D.M. 2009. Quantifying the impact of climate change on groundwater recharge to fractured-rock aquifers: A case study from Canada. Groundwater and climate in Africa Conference, IAHS Publication 334, 210-218.

Appiah-Adjei, E.K., Shu, L., Adjei, K.A. and Lu, C. 2013. Evaluation of climate change impact on sustainability of Tailan underground reservoir in China. Advanced Materials Research, 726-731, 3249-3255.

Artlert, K., Chaleeraktrakoon, C. and Nguyen, V.-T.-V. 2013. Modeling and analysis of rainfall processes in the context of climate change for Mekong, Chi and Mun River Basins (Thailand). Journal of Hydro-environment Research, 7, 2-17.

Aspen Global Change Institute (AGCI), 2006. Climate Change and Aspen: An Assessment of Impacts and Potential Responses. Appendix B, p107-111. Aspen Global Change Institute, Colorado, pp147.

Assefa, K., Woodbury, A. and Holländer, H. 2014. Impact of soil data parameterization on recharge for climate change studies. EGU General Assembly, Vienna, Austria, id 14988.

Ayalew, D., Tesfaye, K., Mamo, G., Yitaferu, B. and Bayu, W. 2012. Outlook of future climate in northwestern Ethiopia, 3, xx-xx

Azad, S. 2015. Comparison of statistical downscaling techniques for development of future climate change scenarios for the coastal areas of Bangladesh. Institute of Water and Flood Management, Bangladesh University of Engineering and Technology.

Azmat, M. 2015. Water Resources Availability and Hydropower Production under Current and Future Climate Scenarios: The Case of Jhelum River Basin, Pakistan. Published Ph.D Thesis, University of Porto, Porto, Portugal.

Babel, M.S. and Turyatunga, E. 2015. Evaluation of climate change impacts and adaptation measures for maize cultivation in the western Uganda agro-ecological zone. Theoretical and Applied Climatology, 119, 239-254.

Bagher, M. 2016. A review of climate change over the last number of days the first of spring frost and ice in Iran using downscaling SDSM. Climatology Research, 15, 117-129.

Bekele, H.M. 2009. Evaluation of climate change impact on Upper Blue Nile Basin reservoir (case study on Gilgel Abay reservoir, Ethiopia). Unpublished MSc thesis, Arba Minch, Ethiopia.

Bettolli, M.L., Carmen, M.A.A., Brasesco, G.C., Rudorff, F., Ortiz, A.M., Arroyo, J. and Armoa, Y.J. 2010. Pastura natural de salto (Uruguay): Relacion con la variabilidad climitica y analisis de contextos futuros de cambio climatico. Revista Brasileira de Meteorologia, 25, 248-259.

Bishaw, Y. 2012. Evaluation of climate change impact on Omo Gibe basin (case study of Gilgel Gibe III reservoir). Unpublished MSc thesis, Addis Ababa University, Ethiopia.

Bootsma, A., Gameda, S. and McKenney, D.W. 2005. Impacts of potential climate change on selected agroclimatic indices in Atlantic Canada. Canadian Journal of Soil Science, 85, 329-343.

Branzuela, N.E., Faderogao, F.J.F. and Pulhin, J.M. 2015. Downscaled Projected Climate Scenario of Talomo-Lipadas Watershed, Davao City, Philippines. Journal of Earth Science and Climatic Change, 6:268.

Campozano, L., Tenelanda, D., Sanchez, E., Samaniego, E. and Feyen, J. 2016. Comparison of Statistical Downscaling Methods for Monthly Total Precipitation: Case Study for the Paute River Basin in Southern Ecuador. Advances in Meteorology, Volume 2016, Article ID 6526341.

Chakebo, M.M. 2016. Projection of Future Climate and its Impacts on Crop production and Possible Adaptation Strategy: Case Study of Hadiya Zone Shashogo Woreda, Southern Ethiopia. Imperial Journal of Interdisciplinary Research, 2(7).

Chaleeraktrakoon, C. and Khwanket, U. 2013. A Statistical Downscaling Model for Extreme Daily Rainfalls at a Single Site. World Environmental and Water Resources Congress ASCE 2013, pp1058-1067.

Chaleeraktrakoon, C. and Punlun, P. 2010. Statistical analysis and downscaling for the minimum, average, and maximum daily temperatures of the Chi and Mun River basins. Thammasat International Journal of Science and Technology, 15, 64-81.

Chandniha, S.K. and Kansal, M.L. 2016. Rainfall estimation using multiple linear regression based statistical downscaling for Piperiya watershed in Chhattisgarh. Journal of Agrometeorology, 18, 106.

Chaowiwat, W. and Likitdecharote, K. 2008. Effect of climate change on potential evapotranspiration case study: Lower Chaopraya Basin. Proceedings of the 1st Nakhon Pathom Rajabhat University (NPRU) Academic Conference, SCI-09, 75-83.

Cheema, S.B., Rasul, G., Ali, G. and Kazmi, D.H. 2011. A comparison of minimum temperature trends with model projections. Pakistan Journal of Meteorology, 8, 39-52.

Chen A. 2006. The threat of dengue fever in the Caribbean: Impacts and adaptation. Final Report submitted to Assessments of Impacts and Adaptations to Climate Change (AIACC), Project No. SIS 06. International START Secretariat, Washington DC.

Chen, A., Taylor, M., Centella, A. and Farrell, D. 2008. Climate trends and scenarios. Report of Working Group I, Climate Change and Biodiversity in Caribbean Island, CANARI Technical Report No.381, December 2008.

Chen, H., Guo, J., Guoi, S-L. and Xu, V.-Y. 2012. Comparison of different statistical downscaling methods and evaluation indicators in climate change impact on runoff. Journal of Hydraulic Engineering, 43, 891-897.

Chen, H., Guo, J., Guoi, S-L., Xu, V.-Y. and Singh, V.P. 2009. Analysis of climate change impact on precipitation in Dajiangkou reservoir basin using statistical downscaling method. Hydrological Modelling and Integrated Water Resources Management in Ungauged Mountainous Watersheds. IAHS, 335, 291-299.

Chen, H., Xu, C.-Y. and Guo, S. 2012. Comparison and evaluation of multiple GCMs, statistical downscaling and hydrological models in the study of climate change impacts on runoff. Journal of Hydrology, 434-435, 36-45.

Chen, J., Brissette, F.P. and Leconte, R. 2011. Uncertainty of downscaling method in quantifying the impact of climate change on hydrology. Journal of Hydrology, 401, 190-202.

Chen, J., Brissette, F.P. and Leconte, R. 2012. Coupling statistical and dynamical methods for spatial downscaling of precipitation. Climatic Change, 114, 509-526.

Chen, S.T., Yu, P.S. and Tang, Y.H. 2010. Statistical downscaling of daily precipitation using support vector machines and multivariate analysis. Journal of Hydrology, 385, 13-22.

Choi, W., Moore, A., Koenig, K. and Rasmussen, P. 2008. Response of hydrological systems to statistically downscaled GCM output in the northern Manitoba (Canada) boreal forest region. Proceedings of the XIIIth IWRA World Water Congress, 1-4 September 2008, Montpellier, France.

Chu, J.T., Xia, J., Xu, C.Y. and Singh, V.P. 2010. Statistical downscaling of daily mean temperature, pan evaporation and precipitation for climate change scenarios in Haihe, China. Theoretical and Applied Climatology, 99, 149-161.

Chung, E.S., Park, K. and Lee, K.S. 2011. The relative impacts of climate change and urbanization on the hydrological response of a Korean urban watershed. Hydrological Processes, 25, 544-560.

Cohen, S. and Neale, T (eds). 2003. Expanding the dialogue on climate change and water management in the Okanagan Basin, British Columbia. Environment Canada.

Combalicer, E.A., Cruz, R.V.O., Lee, S. and Im, S. 2010. Assessing climate change impacts on water balance in the Mount Makiling forest, Philippines. Journal of Earth System Science, 119, 265-283.

Corzo, G., Jonoski, A., Yimer, G., Xuan, Y. and Solomatine, D. 2009. Downscaling Global Climate Models using modular models and fuzzy committees. Proceedings of the 7th International Symposium Ecohydraulics, Chile.

Coulibaly, P. 2004. Downscaling daily extreme temperatures with genetic programming. Geophysical Research Letters, 31, L16203.

Coulibaly, P. 2009. Multi-model approach to hydrologic impact of climate change. From headwaters to the ocean: Hydrological changes and watershed management. Proceedings of the International Conference on Hydrological Changes and Management from Headwaters to the Ocean, Kyoto, Japan, pp249-255.

Coulibaly, P. and Shi, X. 2005. Identification of the effect of climate change on future design standards of drainage infrastructure in Ontario. Ministry of Transportation of Ontario, Canada.

Coulibaly, P., Dibike, Y.B. and Anctil, F. 2005. Downscaling precipitation and temperature with temporal neural networks. Journal of Hydrometeorology, 6, 483-496.

Crawford, T. 2007. Future climate change: modelling the implications of shifts in rainfall characteristics for runoff in Northern Ireland. Unpublished Ph.D. thesis, Queen's University Belfast, Northern Ireland.

Crawford, T., Betts, N.L. and Favis-Mortlock, D.T. 2007. GCM grid box choice and predictor selection associated with statistical downscaling of daily precipitation over Northern Ireland. Climate Research, 34, 145-160.

Crossman, J., Futter, M.N., Oni, S.K., Whitehead, P.G., Jin, L., Butterfield, D., Baulch, H.M. and Dillon, P.J. 2013. Impacts of climate change on hydrology and water quality: Future proofing management strategies in the Lake Simcoe watershed, Canada. Journal of Great Lakes Research, 39, 19-32.

Cueto, R.O.G., Martinez, A.T. and Ostos, E.J. 2010. Heat waves and heat days in an arid city in the northwest of Mexico: current trends and in climate change scenarios. International Journal of Biometeorology, 54, 335-345.

Daihuihui, 2015. Analysis of the impact of climate change on runoff in Shule River basin. Master's thesis, Tsinghua University.

Daihuihui, Y. 2015. Shule River basin based on the SDSM statistical downscaling of climate change research (in Chinese). Journal of Water Resources in Water Transport Engineering, 5, 46-53.

De Silva, G., Weerakoonb, S.B. and Herath, S. 2016. Event Based Flood Inundation Mapping Under the Impact of Climate Change: A Case Study in Lower Kelani River Basin, Sri Lanka. Hydrology: Current Research, 7:228.

Deb, P. and Babel, M.S. 2015. Assessment of impact of climate change and adaptation measures for maize production in East Sikkim, India. Journal of Hydrology and Meteorology, 9, 15-27.

Deb, P., Kiem, A.S., Babel, M.S., Chu, S.T. and Chakma, B. 2015. Evaluation of climate change impacts and adaptation strategies for maize cultivation in the Himalayan foothills of India. Journal of Water and Climate Change, 6, 596-614.

Debbarma, S. and Choudhury, P. 2016. Uncertainty analysis of downscaled daily precipitation using climate scenarios of different story line. Journal of Scientific Research and Development 3, 22-29.

Dharmarathna, W.R.S.S., Herath, S. and Weerakoon, S.B. 2014. Changing the planting date as a climate change adaptation strategy for rice production in Kurunegala district, Sri Lanka. Sustainability Science, 9, 103-111.

Diaz-Nieto, J. and Wilby, R.L. 2005. A comparison of statistical downscaling and climate change factor methods: impacts on low flows in the River Thames, United Kingdom. Climatic Change, 69, 245-268.

Dibike, Y.B. and Coulibaly, P. 2005. Hydrologic impact of climate change in the Saguenay watershed: comparison of downscaling methods and hydrologic models. Journal of Hydrology, 307, 145-163.

Dibike, Y.B. and Coulibaly, P. 2006. Temporal neural networks for downscaling climate variability and extremes. Neural Networks, 19, 135-144.

Dibike, Y.B. and Coulibaly, P. 2007. Validation of hydrologic models for climate scenario simulation: the case of Saguenay watershed in Quebec. Hydrological Processes, 21, 3123-3135.

Dibike, Y.B., Gachon, P., St-Hilaire, A., Ouarda, T.B.M.J. and Nguyen, V.T.V. 2008. Uncertainty analysis of statistically downscaled temperature and precipitation regimes in Northern Canada. Theoretical and Applied Climatology, 91, 149-170.

Dile, Y.T., Berndtsson, R. and Setegn, S.G. 2013. Hydrological response to climate change for Gilgel Abay River, in the Lake Tana Basin - Upper Bule Nile Basin of Ethiopia. PLOS ONE, 8, doi:10.1371/journal.pone.0079296

Ding, X., Zhou, H., Wang, Y. and Jia, J. 2011. Variability and prediction of climatic elements in the Three Gorges Reservoir. Proceedings of an International Symposium on Water Resource and Environmental Protection, Xi'an, China, pp2307-2310.

Ding, X., Zhou, H., Wang, Y. and Wang, Y. 2012. Evolution of hydro-climatic elements in the Three Gorges Reservoir under changing environment. Advanced Materials Research, 356-360, 2376-2382.

Donovan, B. 2003. An investigation into the relationship between large scale atmospheric variables, wave climate and weather related sea level variations. MSc Thesis, Kings College London, 57pp.

Doria, R.O. and Madramootoo, C.A. 2009. Retracted: Estimation of irrigation requirements for some crops in southern Quebec using CROPWAT. Irrigation and Drainage, 10.1002/ird.497.

Doyon, B., Bélanger, D. and Gosselin, P. 2008. The potential impact of climate change on annual and seasonal mortality for three cities in Québec, Canada. International Journal of Health Geographics, 7, 23.

Du, T., Xiong, L., Xu, C.Y., Gippel, C.J., Guo, S. and Liu, P. 2015. Return period and risk analysis of nonstationary low-flow series under climate change. Journal of Hydrology, 527, 234-250.

Duan, K. and Mei, Y. 2014. A comparison study of three statistical downscaling methods and their model-averaging ensemble for precipitation downscaling in China. Theoretical and Applied Climatology, 116, 707-719.

Ebrahim, G.Y., Jonoski, A., van Griensven, A. and Di Baldassarre, G. 2013. Downscaling technique uncertainty in assessing hydrological impact of climate change in the Upper Beles River Basin, Ethiopia. Hydrology Research, 44, 377-398.

Egan, C. 2012. An investigation of Dublin's urban heat island: Past and projected trends. Unpublished MSc Thesis, University of Maynooth, Ireland.

Elhakeem, A., Elshorbagy, W.E., AlNaser, H. and Dominguez, F. 2015. Downscaling global circulation model projections of climate change for the United Arab Emirates. Journal of Water Resources Planning and Management, 141:04015007.

Emami, F., Koch, M. and Lotfi, S. 2015. Evaluating the impacts of climate change on streamflow and water resources management: Aharchai River, Iran, case study. Soil and Water Assessment Tool, Technical Note, 12pp.

Entemadi, H., Samadi, S. and Sharifikia, M. 2014. Uncertainty analysis of statistical downscaling models using general circulation model over an international wetland. Climate Dynamics, 42, 2899-2920.

Enyew, B.D. and Hutjis, R. 2015. Climate Change Impact and Adaptation in South Omo Zone, Ethiopia. Journal of Geology and Geosciences, 4, 1000208.

Eskandari, H., Borji, M., Khosravi, H. and Mesbahzadeh, T. 2016. Desertification of forest, range and desert in Tehran province, affected by climate change. Solid Earth, 7, 905-915.

Farajzadeh, M., Oji, R., Cannon, A.J., Ghavidel, Y. and Bavani, A.M. 2015. An evaluation of single-site statistical downscaling techniques in terms of indices of climate extremes for the Midwest of Iran. Theoretical and Applied Climatology, 120, 377-390.

Fealy, R. 2006. An assessment of the relationship between glacier mass balance and synoptic climate in Norway: Likely future implications of climate change. Unpublished PhD Thesis, University of Maynooth, Ireland.

Feng, Y., Cui, N., Gong, D. and Wei, X. 2016. Projection of reference evapotranspiration in hilly area of central Sichuan using statistical downscaling model. Transactions of the Chinese Society of Agricultural Engineering, 32, 71-9.

Futter, M.N., Helliwell, R.C., Hutchins, M. and Aherne, J. 2009. Modelling the effects of changing climate and nitrogen deposition on nitrate dynamics in a Scottish mountain catchment. Hydrology Research, 40, 153-166.

Gachon, P. and Dibike, Y. 2007. Temperature change signals in northern Canada: convergence of statistical downscaling results using two driving GCMs. International Journal of Climatology, 27, 1623-1641.

Gagnon, S., Singh, B., Rousselle, J. and Roy, L. 2005. An application of the Statistical DownScaling Model (SDSM) to simulate climatic data for streamflow modelling in Quebec. Canadian Water Resources Journal, 30, 297-314.

Garcia-Cueto, O.R. and Santillan-Soto, N. 2012. Modelling extreme climate events: Two case studies in Mexico. Climate Models. IntechOpen Books, Chapter 7, ISBN 978-953-51-0135-2.

Gaur, A. and Simonovic, S.P. 2016. Extension of physical scaling method and its application towards downscaling climate model based near surface air temperature. International Journal of Climatology, doi:10.1002/joc.4921

Gaur, A., 2016. A Physical Scaling Method to Incorporate Regional Physical Characteristics in Future Climatic and Hydrologic Predictions. PhD Thesis, University of Western Ontario.

Gebremeskel, G. 2015. Estimation of groundwater recharge and potentials under changing climate in Werii Watershed, Tekeze River Basin. MSc thesis in Irrigation Engineering. Haramaya, Ethiopia: Haramaya University.

Gebri, W.G. and Abate, B. 2014. Trend of lake evaporation considering climate change, the case of Lake Hawasa, Ethiopia. International Journal of Science and Research, 3,1605-1610.

Gemechu, T., Wakbulcho, G., Rao, G.N. and Adamu, T. 2015. The current and future trend of rainfall and its variability in Adami Tulu Jido Kombolcha woreda, Central Rift Valley of Ethiopia. Journal of Environment and Earth Science, 5, 40-49.

Ghandhari, J., Soltani, J. and Hamidian Pour, M. 2016. Evaluation of Optimal Water Allocation Scenarios for Bar River of Neishabour Using WEAP Model Under A2 Climatic Changes Scenario. Journal of Water and Soil, 29:5.

Goldstein, J. and Milton, J. 2003. Regional climate scenarios set development for hydrological impact studies. Proceedings of the 14th Symposium on Global Change and Climate Variations, American Meteorological Society, Long Beach, California.

Göncü, S. and Albek, E. 2016. Statistical downscaling of meteorological time series and climatic projections in a watershed in Turkey. Theoretical and Applied Climatology, 126, 191-211.

Goodess, C., Osborn, T. and Hulme, M. 2003. The identification and evaluation of suitable scenario development methods for the estimation of future probabilities of extreme weather events. Tyndall Centre for Climate Change Research, Technical Report 4.

Gough, W.A., Tam, B.Y., Mohsin, T. and Allen, S.M.J. 2014. Extreme cold weather alerts in Toronto, Ontario, Canada and the impact of changing climate. Urban Climate, 8, 21-29.

Guangul, S.G. 2003. Modelling the effect of climate and land-use changes on hydrological processes: An integrated GIS and distributed modelling approach. Published PhD Thesis, Vrije Universiteit, Brussels, Belgium.

Guo, B., Zhang, J., Gong, H. and Cheng, X. 2014. Future climate change impacts on the ecohydrology of Guishui River Basin, China. Ecohydrology and Hydrobiology, 14, 55-67.

Guo, J., Chen, H., Xu, C.-Y., Guo, S. and Guo, J. 2012. Prediction of variability of precipitation in the Yangtze River Basin under the climate change conditions based on automated statistical downscaling. Stochastic Environmental Research and Risk Assessment, 26, 157-176.

Guo, Y-.F., Li, T.T., Cheng, Y.L., Ge, T.X., Chen, C. and Liu, F. 2012. Prediction of heat-related mortality impacts under climate change scenarios in Shanghai. PMID, 46, 1025-1029.

Gupta, S. 2015. Diriba, S., 2015. Simulating climate change impact on soil erosion and soil carbon sequestration. Masters Thesis, Andhra University, Visakhapatnam, India.

Hackney, C.R. 2013. Modelling the effects of climate change and sea level rise on the evolution of incised coastal gullies.University of Southampton, Geography, Doctoral Thesis, 203pp.

Hagg, W., Shahgedanova, M., Mayer, C., Lambrecht, A. and Popovnin, V. 2010. A sensitivity study for water availability in the Northern Caucasus based on climate projections. Global and Planetary Change, 73, 161-171.

Haile, G.G. and Kassa, A.K. 2015. Investigation of Precipitation and Temperature Change Projections in Werii Watershed, Tekeze River Basin, Ethiopia; Application of Climate Downscaling Model. Journal of Earth Science and Climatic Change, 6:300.

Harpham, C. and Wilby, R.L. 2005. Multi-site downscaling of heavy daily precipitation occurrence and amounts. Journal of Hydrology, 312, 235-255.

Hashmi, M.Z., Shamseldin, A. and Melville, B.W. 2011. Statistical downscaling of watershed precipitation using Gene Expression Programming (GEP). Environmental Modelling and Software, 26, 1639-1646.

Hashmi, M.Z., Shamseldin, A.Y. and Melville, B.W. 2009. Statistical downscaling of precipitation: state-of-the- art and application of Bayesian multi-model approach for uncertainty assessment. Hydrology and Earth System Sciences Discussion, 6, 6535-6579.

Hashmi, M.Z., Shamseldin, A.Y. and Melville, B.W. 2011. Comparison of SDSM and LARS-WG for simulation and downscaling of extreme precipitation events in a watershed. Stochastic Environmental Research and Risk Assessment, 25, 475-484.

Hashmi, M.Z.R. 2012. Watershed scale climate change projections for use in hydrologic studies: exploring new dimensions. Unpublished PhD Thesis, University of Auckland, New Zealand.

Hassan, Z. and Harun, S. 2011. Hydrological response of a catchment to climate change in the Kurau River Basin, Perak, Malaysia. Proceedings of the Third International Conference on Managing Rivers in the 21st Century: Sustainable Solutions for Global Crisis of Flooding, Pollution and Water Scarcity. Penang, Malaysia.

Hassan, Z. and Harun, S. 2012. Application of Statistical DownScaling Model for long lead rainfall prediction in Kurau river catchment of Malaysia. Malaysian Journal of Civil Engineering, 24, 1-12.

Hassan, Z., Harun, S. and Malek, M.A. 2012. Application of ANNs with the SDSM for the hydrological trend prediction in the sub-catchment of Kurau River, Malaysia. Journal of Environmental Science and Engineering B, 1, 577-585.

Hassan, Z., Shamsudin, S. , Harun, S., Malek, A. and Hamidon, N. 2015. Suitability of ANN applied as a hydrological model coupled with statistical downscaling model: a case study in the northern area of Peninsular Malaysia. Environmental Earth Sciences, 74, 463-477.

Hassan, Z., Shamsudin, S. and Harun, S. 2014. Application of SDSM and LARS-WG for simulating and downscaling of rainfall and temperature. Theoretical and Applied Climatology, 116, 243-257.

Haylock, M.R., Cawley, G.C., Harpham, C., Wilby, R.L. and Goodess, C.M. 2006. Downscaling heavy precipitation over the UK: a comparison of dynamical and statistical methods and their future scenarios. International Journal of Climatology, 26, 1397-1415.

He, B., Takara, K., Yamashili, Y., Kenichiro, K. and Luo, P. 2011. Statistical analysis of present and future river water temperature in cold regions using downscaled GCMs data. Annuals of Disaster Prevention Research Institute, 54B, 103-111.

He, J., Valeo, C., Chu, A. and Neumann, N.F. 2011. Stormwater quantity and quality response to climate change using artificial neural networks. Hydrological Processes, 25, 1298-1312.

Helu, A.T. 2015. Integrated water losses assessment and water balance study over arid and semi-arid basins located in developing countries. PhD Thesis, Cardiff University.

Herath, H.M.S.M., Sarukkalige, P.R. and Nguyen, V.T.V. 2015. Downscaling approach to develop future sub-daily IDF relations for Canberra Airport Region, Australia. Proc. IAHS, 369, 147-155.

Herath, H.M.V.V., Dayananda, R.G.A.B. and Weerakoon, S.B. 2015. Climate change impact prediction in Upper Mahaweli Basin. 6th International Conference on Structural Engineering and Construction Management, Kandy, Sri Lanka.

Herath, S. and Sarukkalige, R. 2014. Spatial and temporal downscaling approach to develop IDF curves for Melbourne airport region. Hydrology and Water Resources Symposium 2014, Barton, ACT: Engineers Australia, 239-246.

Herath, S.M., Sarukkalige, P.R. and Nguyen, V.T.V., 2016. A spatial temporal downscaling approach to development of IDF relations for Perth airport region in the context of climate change. Hydrological Sciences Journal, 61, 2061-2070.

Hessami, M., Gachon, P., Ouarda, T.B.M.J. and St-Hilaire, A. 2008. Automated regression-based statistical downscaling tool. Environmental Modelling and Software, 23, 813-834.

Holloway, T., Spak, S.N., Barker, D., Bretl, M., Moberg, C., Hayhoe, K., Van Dorn, J. and Wuebbles, D. 2008. Change in ozone air pollution over Chicago associated with global climate change. Journal of Geophysical Research-Atmospheres, 113, D22306.

Hong, X., Guo, S., Guo, J., Hou, Y. and Wang, L. 2014. Projected changes of extreme precipitation characteristics for the Poyang Lake Basin based on Statistical Downscaling Model. Journal of Watre Resources Research, 3, 511-521.

Hou, Y., Chen, H., Huang, X. and Xu, C. 2014. A statistical downscaling method based on least squares support vector machines. Journal of Water Resources Research, 3, 72-77.

Hu, Y. 2014. Water tower of the Yellow Rover in a changing climate: Toward an integrated assessment. PhD thesis, UNESCO-IHE, Delft, Netherlands

Hu, Y., Maskey, S. and Uhlenbrook, S. 2012. Downscaling daily precipitation over the Yellow River source region in China: a comparison of three statistical downscaling methods. Theoretical and Applied Climatology, 112, 447-460.

Hu, Y., Maskey, S., and Uhlenbrook, S. 2013. Expected changes in future temperature extremes and their elevation dependency over the Yellow River source region. Hydrology and Earth Systems Science, 17, 2501-2514.

Huang, J., Zhang, J., Zhang, Z., Sun, S. and Yao, J. 2012. Simulation of extreme precipitation indices in the Yangtze River basin by using statistical downscaling method (SDSM). Theoretical and Applied Climatology, 108, 325-343.

Huang, J., Zhang, J.C., Zhang, Z.X., Xu, C.Y., Wang, B.L. and Yao, J. 2011. Estimation of future precipitation change in the Yangtze River basin by using statistical downscaling method. Stochastic Environmental Research and Risk Assessment, 25, 781-792.

Huang, Y.F., Ang, J.T., Tiong, Y.J., Mirzaei, M. and Amin, M.Z.M. 2016. Drought Forecasting using SPI and EDI under RCP-8.5 Climate Change Scenarios for Langat River Basin, Malaysia. Procedia Engineering, 154, 710-717.

Hussain, M., Yusof, K.W., Mustafa, M.R. and Afshar, N.R., 2015. Application of statistical downscaling model (SDSM) for long term prediction of rainfall in Sarawak, Malaysia. Water Resources Management, 8, 269-278.

Irwin, S.E., Sarwar, R., King, L.M. and Simonovic, S.P. 2012. Assessment of climatic vulnerability in the Upper Thames River basin: Downscaling with LARS-WG. University of Western Ontario Department of Civil and Environmental Engineering, Report No 081, Canada, 73pp.

Jasrotia, A.S., Baru, D. and Nishat, F. 2013. Dynamic modelling for assessing the impact of climate change on the hydrological regime of Chenab basin, NW Himalayas. Proceedings of Symposium H01 on Climate and Land Surface Changes in Hydrology, Gothenburg, Sweden.

Jia, Y., Ding, X., Wang, H., Zhou, Z., Qiu, Y. and Niu, C. 2012. Attribution of water resources evolution in the highly water-stressed Hai River Basin of China. Water Resources Research, 48, W02513.

Jun, K.S., Chung, E-S., Sung, J-Y. and Lee, K.S. 2011. Development of spatial water resources vulnerability index considering climate change impacts. Science of the Total Environment, 409, 5228-5242.

Kabiri, R., Bai V, R. and Chan, A. 2013. Regional precipitation scenarios using a spatial-statistical downscaling approach for Klang watershed, Malaysia. Journal of Environmental Research and Development, 8, 126-134.

Kabiri, R., Bai, V.R. and Chan, A. 2015. Assessment of hydrologic impacts of climate change on the runoff trend in Klang Watershed, Malaysia. Environmental Earth Sciences, 73, 27-37.

Kabiri, R., Ramani, B.V. and Chan, A. 2012. Climate change impacts on river runoff in Klang watershed in West Malaysia. Proceedings of the 10th WSEAS International Conference on Advances in Environment, Computational Chemistry and Bioscience, Montreux, Switzerland, pp223-228.

Karamouz, M., Fallahi, M. and Nazif, S. 2012. Evaluation of climate change impact on regional flood characteristics. Transactions of Civil Engineering, 36, 225-238.

Karamouz, M., Fallahi, M., Nazif, S. and Farahani, M.R. 2009. Long lead rainfall prediction using statistical downscaling and artificial neural network modelling. Scientia Iranica Transaction A-Civil Engineering, 16, 165-172.

Karamouz, M., Fallahi, M., Nazif, S. and Farahani, M.R. 2012. Long lead runoff simulation using data driven models. International Journal of Civil Engineering, 10, 328-336.

Karamouz, M., Hosseinpour, A. and Nazif, S. 2011. Improvement of urban drainage system performance under climate change impact: case study. Journal of Hydrologic Engineering, 16, 395-412.

Karamouz, M., Nazif, S. and Zhamatkesh, Z. 2013. Self-organizing Gaussian-based downscaling of climate data for simulation of urban drainage systems. Journal of Irrigation and Drainage Engineering, 139, 98-112.

Karamouz, M., Noori, N., Moridi, A. and Ahmadi, A. 2011. Evaluation of floodplain variability considering impacts of climate change. Hydrological Processes, 25, 90-103.

Karamouz, M., Rouhanizadeh, B., Taheriyoun, M. and Emami, F. 2016. Impact of Climate Change on Sediment Loads Transport in a Watershed Scale: A Case Study. International Conference on Water Resources (ICWR 2009) 26 – 27 May 2009, Bayview Hotel, Langkawi, Kedah, Malaysia.

Karamouz, M., Taheriyoun, M., Baghvand, A., Tavakolifar, H. and Emami, F. 2010. Optimization of watershed control strategies for reservoir eutrophication management. Journal of Irrigation and Drainage Engineering, 136, 847-861.

Karmaoui, A. 2015. A Multidisciplinary Approach to Assess the Environmental Vulnerability at Local Scale in Context of Climate Change (Pilot Study in Upper Draa Valley, South Morocco). Global Journal of Technology and Optimization, 6:167.

Karmaoui, A., Ifaadassan, I., Babqiqi, A., Messouli, M. and Khebiza, M.Y. 2016. Analysis of the Water Supply-demand Relationship in the Middle Draa Valley, Morocco, under Climate Change and Socio-economic Scenarios. Journal of Scientific Research & Reports, 9, 1-10Article no.JSRR.21536.

Kazmi, D.H., Li, J., Rasul, G., Tong, J., Ali, G., Cheema, S.B., Liu, L., Gemmer, M. and Fischer, T. 2015. Statistical downscaling and future scenario generation of temperatures for Pakistan Region. Theoretical and Applied Climatology, 120, 341-350.

Keshta, N., Elshorbagy, A. and Carey, S. 2011. Impacts of climate change on soil moisture and evapotranspiration in reconstructed watersheds in northern Alberta, Canada. Hydrological Processes, 26, 1321-1331.

Khadka, D. and Pathak, D. 2016. Climate change projection for the Marsyangdi river basin, Nepal using statistical downscaling of GCM and its implications in geodisasters. Geoenvironmental Disasters, 3, 15.

Khadka, D., Babel, M.S., Shrestha, S. and Tripathi, N.K. 2014. Climate change impact on glacier and snow melt and runoff in Tamakoshi basin in the Hindu Kush Himalayan (HKH) region. Journal of Hydrology, 511, 49-60.

Khan, M.S. and Coulibaly, P. 2010. Assessing hydrologic impact of climate change with uncertainty estimates: Bayesian neural network approach. Journal of Hydrometeorology, 11, 482-495.

Khan, M.S., Coulibaly, P. and Dibike, Y. 2006. Uncertainty analysis of statistical downscaling methods using Canadian Global Climate Model predictors. Hydrological Process, 20, 3085-3104.

Khan, M.S., Coulibaly, P. and Dibike, Y. 2006. Uncertainty analysis of statistical downscaling methods. Journal of Hydrology, 319, 357-382.

Khan, M.S., Dibike, Y.B. and Coulibaly, P. 2004. Climate change scenario in the Sanguenay watershed: Comparison of downscaled results using CGCM1 and CGCM2 predictors. Proceedings of the 57th Canadian Water Resources Association Annual Congress, June 16-18 2004, Montreal, Canada.

Kim, D.G., Lee, Y.W., Kwak, J.W. and Kim, H.S. 2011. Water balance analysis of Upo wetland, Korea under climate change. Proceedings of the 2011 World Environmental and Water Resources Congress. ASCE Conf. Proc. 10.1061/141173(414)482.

Kim, Y. and Chung, E.S. 2012. Integrated assessment of climate change and urbanization impact on adaptation strategies: a case study in two small Korean watersheds. Climatic Change, 115, 853-872.

King, L.M., Irwin, S., Sarwar, R. and McLeod, A.I. 2012. The effects of climate change on extreme precipitation events in the Upper Thames River basin: A comparison of downscaling approaches. Canadian Water Resources Journal, 37, 253-274.

Koukidis, E.N. and Berg, A.A. 2009. Sensitivity of the Statistical DownScaling Model (SDSM) to reanalysis products. Atmosphere-Ocean, 47, 1-18.

Kumambala, P.G. and Ervine, A. 2010. Water balance model of Lake Malawi and its sensitivity to climate change. The Open Hydrology Journal, 4, 152-162.

Kundu, S., Khare, D. and Monda,l A. 2017. Future Projection of Rainfall by Statistical Downscaling Method in a Part of Central India. Environment and Earth Observation, pp. 57-70. Springer International Publishing.

Lai, J.-S., Pan, T.-Y., Tung, C.-P., Chang, K.-C., Tan, Y.-C. and Lin, T.-T. 2009. The analysis of vulnerability for Yuan-San-Zhi flood division tunnel under the effect of climate changes. Journal of Taiwan Agricultural Engineering, 55, 65-80.

Lavers, D., Prudhomme, C., Hannah, D.M. and Troccoli, A. 2007. Comparison of the potential skill of raw and downscaled GCM output for river flow forecasting: a UK case study. CLIVAR Exchanges, 12, No.4 October 2007.

Lazar, B. and Williams, M. 2007. Climate change in Park City: An assessment of climate and snowpack impacts. Stratus Consulting, Boulder.

Legesse, S.A. and Prasada Rao, P.V.V. 2013. Statistical downscaling of daily temperature and rainfall data from global circulation models: in South Wollo zone, North Central Ethiopia. National Monthly Refereed Journal of Research in Science and Technology, 2, 27-39.

Li, Y. and Zhou, M. 2014. Projections of water requirements of cotton and sugar beet in Xinjiang based on statistical downscaling model. Transactions of the Chinese Society of Agricultural Engineering, 22, S274.3.

Li, Z., Zheng, F.-L. and Liu, W.-Z. 2011. Spatiotemporal characteristics of reference evapotranspiration during 1961-2009 and its projected changes during 2011-2099 on the Loess Plateau of China. Agriculture and Forest Meteorology, 154-155, 147-155.

Lines, G.S. and Barrow, E. 2004. Regional climate change scenarios in Atlantic Canada utilizing statistical downscaling techniques: Preliminary results. In: Wells, P.G., Dabon, G.R., Percy, J.A., Harvey, J. and Rolston, S.J. (Eds.) Health of the Bay of Fundy: Assessing Key Issues. Environment Canada Occasional Report No.21, Dartmouth.

Lines, G.S., Pancura, M. and Lander, C. 2005. Building climate change scenarios of temperature and precipitation in Atlantic Canada using the Statistical DownScaling Model (SDSM). Meteorological Service of Canada, Atlantic Region. Science Report series 2005-9, Dartmouth, Canada, pp41.

Liu, J., Chen, S., Li, L. and Li, J. 2016. Statistical downscaling and projection of future air temperature changes in Yunnan province, China.

Liu, L., Liu, Z., Ren, X., Fischer, T. and Xu, Y. 2011. Hydrological impacts of climate change in the Yellow River Basin for the 21s century using hydrological model and statistical downscaling model. Quaternary International, 244, 211-220.

Liu, L., Xu, Z., Li, R. and Wang, Y. 2016. Hydrological Implications of Climate Change on River Basin Water Cycle: Case Studies of the Yangtze River and Yellow River Basins, China. Preprints 2016100023.

Liu, M. and Lu, J. 2015. Response of river hydrology and water quality to climate change in Changle River Watershed, Eastern China. Environmental Science Kournal, 35, 108-117.

Liu, W., Fu, G., Liu, C. and Charles, S.P. 2012. A comparison of three multi-site statistical downscaling models for daily rainfall in the North China Plain. Theoretical and Applied Climatology, 111, 585-600.

Liu, X. and Coulibaly, P. 2011. Downscaling ensemble weather predictions for improved week-2 hydrologic forecasting. Journal of Hydrometeorology, 12, 1564-1580.

Liu, X.L., Coulibaly, P. and Evora, N, 2008. Comparison of data-driven methods for downscaling ensemble weather forecasts. Hydrology and Earth System Sciences, 12, 615-624.

Liu, Z. and Xu, Z. 2015. Climate change scenarios generated by using GCM outputs and statistical downscaling in an arid region. Desert, 20, 101-115.

Liu, Z., Xu, Z., Charles, S.P., Fu, G. and Liu, L. 2011. Evaluation of two statistical downscaling models for daily precipitation over an arid basin in China. International Journal of Climatology, 31, 2006-2020.

London Climate Change Partnership (LCCP), 2002. A climate change impacts in London evaluation study. Final Technical Report, Entec UK Ltd.

Lu, X. 2006. Guidance on the Development of Climate Scenarios within the Framework of National Communications from Parties not Included in Annex I (NAI) to the United Nations Framework Convention on Climate Change (UNFCCC). National Communications Support Programme (NCSP), UNDP-UNEP-GEF.

Ma, Y., Huang, Y., Chen, X., Li, Y. and Bao, A. 2013. Modelling snowmelt runoff under climate change scenarios in an ungauged mountainous watershed, northwest China. Mathematical Problems in Engineering, Article ID 808565, doi: 10.1155/2013/808565.

MacDonald, O. 2004. Coupling glacier mass balance and meltwater yields in the European Alps with future climate change: downscaling from integrations of the HadCM model. Unpublished PhD Thesis, University of Salford, UK.

Mahmood, R. and Babel, M.S. 2013. Evaluation of SDSM developed by annual and monthly sub-models for downscaling temperature and precipitation in the Jhelum basin, Pakistan and India. Theoretical and Applied Climatology, 113, 27-44.

Mahmood, R. and Babel, M.S. 2014. Future changes in extreme temperature events using the statistical downscaling model (SDSM) in the trans-boundary region of the Jhelum river basin. Weather and Climate Extremes, 5-6, 56-66.

Mahmood, R., Babel, M.S. and Shaofeng, J.I.A. 2015. Assessment of temporal and spatial changes of future climate in the Jhelum river basin, Pakistan and India. Weather and Climate Extremes, 10, 40-55.

Maskey, S., Hu, Y., Agarwal, A. and Bhatt, D. 2014. Hydrological impacts of climate change - challenges, uncertainty and limitations. 11th International Conference on Hydroinformatics HIC, New York City, USA, August 17-21, 2014.

McCuin, J.L. 2011. Measuring the effect of misconceptions instruction on the acquisition of fundamental physics concepts involved in the greenhouse effect. PhD thesis, Texas Tech University, 153pp.

Meenu, R., Rehana, S. and Mujumdar, P.P. 2013. Assessment of hydrologic impacts of climate change in Tunga-Bhadra river basin, India with HEC-HMS and SDSM. Hydrological Processes, 27, 1572-1589.

Meiyu, H. 2015. Scenarios Projection and Suitability Analysis of the Temperature Change Over Qinghai Lake Area Based on Statistical Downscaling Method. Science Technology and Application, 6, 86-92.

Mishra, P.K., Khare, D., Mondal, A. and Kundu, S. 2014. Multiple linear regression based statistical downscaling of precipitation in a Canal Command. In: Singh, M. et al. (eds.) Climate Change and Biodiversity; Proceedings of IGU Rohtak Conference, Volume 1, Chapter 6. Advances in Geographical and Environmental Sciences, Springer, Japan.

Mohammed, Y. 2009. Climate change impact assessment on soil water availability and crop yield in Anjeni watershed Blue Nile basin. Unpublished MSc thesis, Arba Minch, Ethiopia.

Mohsen, A., Taqi, T., Mahmood, K. and Hossein, T. 2016. Uncertainty analyses of future changes in daily maximum temperatures over Iran by using of GIS. Geographical Data, 25, 29-43.

Molavi, S., Muttil, N. and Tran, H.D. 2011. Urban flood modelling and climate change: A Melbourne area case study. MODSIM 2011 - 19th International Congress on Modelling and Simulation - Sustaining Our Future: Understanding and Living with Uncertainty, 3608-3614.

Mondal, A., Khare, D. and Kundu, S. 2016. Change in rainfall erosivity in the past and future due to climate change in the central part of India. International Soil and Water Conservation Research, 4,186-194.

Mondal, A., Khare, D., Kundu, S., Meena, P., Mishra, P. and Shukla, R. 2015. Impact of climate change on future soil erosion in different slope, land use, and soil-type conditions in a part of the Narmada River Basin, India. Journal of Hydrologic Engineering, 20, 10.1061/(ASCE)HE.1943-5584.0001065.

Mullan, D., Chen, J. and Zhang, J. 2016. Validation of non‑stationary precipitation series for site‑specific impact assessment: comparison of two statistical downscaling techniques. Climate Dynamics, 46, 967-986.

Mullan, D., Favis-Mortlock, D. and Fealy, R. 2012. Addressing key limitations associated with modelling soil erosion under the impacts of future climate change. Agricultural and Forest Meteorology, 156, 18-30.

Mullan, D., Fealy, R. and Favis-Mortlock, D. 2012. Developing site-specific future temperature scenarios for Northern Ireland: addressing key issues employing a statistical downscaling approach. International Journal of Climatology, 32, 2007-2019.

Mullan, D., Zhang, X. and Chen, J. 2014. Validation of non-stationary precipitation series for site-specific impact assessment: comparison of two statistical downscaling techniqes. EGU General Assembly, Vienna, Austria, id6942.

Mullan, D.J., Favis-Mortlock, D.T. and Fealy, R. 2011. Modelling the impacts of climate change on future rates of soil erosion: Addressing key limitations. International Symposium on Erosion and Landscape Evolution Conference Proceedings, 18-21 September 2011, Anchorage, Alaska.

Muluye, G.Y. 2012. Comparison of statistical methods for downscaling daily precipitation. Journal of Hydroinformatics, 14, 1006-1023.

Mutasa, C. 2011. Impacts of climate change on groundwater resources: a case study of the Sardon catchment, Spain. Unpublished MSc Thesis, Enschede, The Netherlands.

Narwariya, K.S., Tiwari, H.L. and Jaiswal, R.K. 2016. Study of climate change for precipitation over Tighra Dam catchment Gwalior, Madhya Pradesh, India. International Journal of Engineering and Technical Research, 5, 97-100.

Nasseri, M., Tavakol-Davani, H. and Zahraie, B. 2013. Performance assessment of different data mining methods in statistical downscaling of daily precipitation. Journal of Hydrology, 492, 1-14.

Nega, A., Nikraz, H., Herath, S. and Ghadimi, B. 2015. Distress Identification, Cost Analysis and Pavement Temperature Prediction for the Long-Term Pavement Performance for Western Australia. International Journal of Engineering and Technology, 7, 267-275.

Nguyen, V.T.V. and Zareie, A. 2012. Estimation of point-to-area rainfall frequency relations in the context of climate change. Proceedings of the World Environmental and Water Resources Congress, Albuquerque, New Mexico, US, pp1837-1844.

Nguyen, V.T.V., Desramaut, N. and Nguyen, T.D. 2010. Optimal rainfall temporal patterns for urban drainage design in the context of climate change. Water Science and Technology, 62, 1170-1176.

Nigatu, Z.M., Rientjes, T. and Haile, A.T. 2016. Hydrological Impact Assessment of Climate Change on Lake Tana's Water Balance, Ethiopia. American Journal of Climate Change, 5, 27.

Noreña, J.E.O., Garcia, C.G. and Conde, A.C. 2011. A proposal for a vulnerability index for hydroelectricity generation in the face of potential climate change in Columbia. Atmosfera, 24, 329-346.

Norena, J.E.O., Garcia, C.G., Conde, A.C., Magana, V. and Esqueda, G.S.T. 2009. Vulnerability of water resources in the face of potential climate change: generation of hydroelectric power in Colombia. Atmosfera, 22, 229-252.

Nury, A.H. and Alam, M.J.B. 2014. Performance study of global circulation model HadCM3 using SDSM for temperature and rainfall in North-Eastern Bangladesh. Journal of Scientific Research, 6, 87-96.

Nyenje, P.M. and Batelaan, O. 2009. Estimating the effects of climate change on groundwater recharge and baseflow in the Ssezibwa catchment, Uganda. Hydrological Sciences Journal, 54, 713-726.

O'Connor, P. 2013. Assessment of a decision-centric approach to climate change adaptation. Unpublished Masters thesis. National University of Ireland, Maynooth, 80pp.

Oni, S.K., Futter, M.N., Molot, L.A. and Dillon, P.J. 2012. Modelling the long term impact of climate change on the carbon budget of Lake Simcoe, Ontario using INCA-C. Science of the Total Environment, 414, 387-403.

Oni, S.K., Futter, M.N., Molot, L.A., Dillon, P.J. and Crossman, J. 2014. Uncertainty assessments and hydrological implications of climate change in two adjacent agricultural catchments of a rapidly urbanizing watershed. Science of the Total Environment, 473, 326-337.

Osma, V.C., Romá, J.E.C. and Martín, M.A.P. 2015. Modelling regional impacts of climate change on water resources: the Jucar basin, Spain. Hydrological Sciences Journal, 60, 30-49.

Osman, Y.Z. and Abdellatif, M.E. 2016. Improving the accuracy of downscaling rainfall by combining predictions of different statistical downscale methods. Water Science, doi:uncorrected proof.

Oswald, M.R. 2011. Evaluation of climate change adaptation tools for transportation and land use planning. Masters thesis, University of Delaware, Newark, US, 61pp.

Pandey, P. 2015. Impact of Climate Change on the Hydrology of Mahanadi River Basin. Masters Thesis, National Institute of Technology, Rourkela, India.

Parajuli, A., Devkota, L.P., Adhikari, T.R., Dhakal, S. and Kayastha, R.B. 2015. Impact of Climate Change on River Discharge and Rainfall Pattern: A Case Study from Marshyangdi River basin, Nepal. Journal of Hydrology and Meteorology, 9, 60-73.

Parajuli, K. and Kang, K. 2014. Application of statistical downscaling in GCMs at constructing the map of precipitation in the Mekong River basin. Russian Meteorology and Hydrology, 39, 271-282.

Park, K., Chung, E,-S., Kim, S.-U. and Lee, K.S. 2010. Impact analysis of construction of small wastewater treatment plant under climate change. Journal of Korean Society on Water Quality, 26, 268-278.

Parvaze, S., Parvaze, S., Haroon, S., Khurshid, N., Khan, J.N. and Ahmad, L. 2016. Projected Change in Climate Under A2 Scenario in Dal Lake Catchment Area of Srinagar City in Jammu and Kashmir. Current World Environment, 11(2).

Pei, F., Li, X., Liu, X., Lao, C. and Xia, G. 2015. Exploring the response of net primary productivity variations to urban expansion and climate change: A scenario analysis for Guangdong Province in China. Journal of Environmental Management, 150, 92-102.

Pervez, M. and Henebry, G.M. 2013. Climate change impacts on the Ganges-Brahmaputra precipitation - downscaled from GCM predictors. American Geophysical Union, Fall Meeting, abstract #GC11E-08.

Pervez, M.S. and Henebry, G.M. 2014. Projections of the Ganges-Brahmaputra precipitation - Downscaled from GCM predictors. Journal of Hydrology, 517, 120-134.

Pervez, M.S. and Henebry, G.M. 2015. Assessing the impacts of climate and land use and land cover change on the freshwater availability in the Brahmaputra River basin. Journal of Hydrology: Regional Studies, 3, 285-311.

Pharasi, S. 2006. Development of statistical downscaling methods for the daily precipitation process at a local site. Masters Thesis, Department of Civil Engineering and Applied Mechanics, McGill University, Quebec, Canada.

Pichuka, S. and Maity, R. 2016. Spatio-temporal downscaling of projected precipitation in the 21st century: indication of a wetter monsoon over the Upper Mahanadi Basin, India. Hydrological Sciences Journal, online.

Pour, S.H., Harun, S.B. and Shahid, S. 2014. Genetic programming for the downscaling of extreme rainfall events on the east coast of Peninsular Malaysia. Atmosphere, 5, 914-936.

Pourtouiserkani, A. and Rakhshandehroo, G.R. 2014. Investigating climate change impacts on extreme rainfall events case study: Chenar-Randar basin, Fars, Iran. Scientia Iranica, 21, 525-533.

Pourtouiserkani, A., Rakhshandehroo, G.R. and Akbari, S.M. 2015. Comparison of Statistical Downscaling Methods in Projecting Climate Change Impact on Extreme Runoff Events in Chenar Rahdar River Basin (Iran). EWRI Watershed Management Symposium, Reston, VA, USA, August 5-7, 2015.

Pradhan, N.S., Sijapati, S. and Bajracharya, S.R. 2015. Farmers' responses to climate change impact on water availability: insights from the Indrawati Basin in Nepal. International Journal of Water Resources Development, 31, 269-283.

Prudhomme, C. and Davies, H. 2005. Comparison of different sources of uncertainty in climate change impact studies in Great Britain. Climatic and anthropogenic impacts on water resources variability. UNESCO workshop, Montpellier, 22-24 November 2004.

Prudhomme, C. and Davies, H. 2009. Assessing uncertainties in climate change impact analyses on the river flow regimes in the UK. Part 1: baseline climate. Climatic Change, 93, 177-195.

Prudhomme, C. and Davies, H. 2009. Assessing uncertainties in climate change impact analyses on the river flow regimes in the UK. Part 2: future climate. Climatic Change, 93, 197-222.

Prudhomme, C., Piper, B., Osborn, T. and Davies, H. 2005. Climate change uncertainty in water resources planning. UKWIR Report 05/CL/04/4, UK Water Industry Research.

Qiu, B. and Jiang, J. 2010. Analysis of trends of future temperature in the Bosten Lake Basin based on a statistical downscaling model. Journal of Resources Ecology, 1, 268-273.

Quilbé, R., Rousseau, A.N., Moquet, J.-S., Savary, S., Ricard, S. and Garbouj, M.S. 2008. Hydrological responses of a watershed to historical land use evolution and future land use scenarios under climate change conditions. Hydrology and Earth System Sciences, 12, 101-110.

Quilbé, R., Rousseau, A.N., Moquet, J.-S., Trinh, N.B., Dibike, Y., Gachon, P. and Chaumont, D. 2008. Assessing the effect of climate change on river flow using General Circulation Models and hydrological modelling – application to the Chaudiere River, Quebec, Canada. Canadian Water Resources Journal, 33, 73-

Rajabi, A. and Shabanlou, S. 2012. Climate index changes in future by using SDSM in Kermanshah, Iran. Journal of Environmental Research and Development, 7, 37-44.

Rajabi, A. and Shabanlou, S. 2013. The analysis of uncertainty of climate change by means of SDSM model case study: Kermanshah. World Applied Sciences Journal, 23, 1392-1398.

Rajabi, A. and Shabanlou, S. 2015. The analysis of climate change uncertainty by means of SDSM model (case study: Kermanshah province, Iran). Agricultural Communications, 3, 33-40.

Rajabi, A., Sedghi, H., Eslamian, S. and Musavi, H. 2010. Comparison of LARS-WG and SDSM downscaling models in Kermanshah (Iran). Ecology, Environment and Conservation, 16, 465-474.

Rakhshandehroo, G.R., Akbari, H., Pourtouiserkani, A. and Ostadzadeh, E. 2015. Climate Change Impact on Suspended Sediment Load in Chenar Rahdar River. Internatinal Congress on Civil Engineering, University of Tabriz, Iran, May 5-7, 2015.

Reeves, I. 2008. Climate change impacts and adaptation Saint John, New Brunswick, Canada. Atlantic Coastal Action Plan Saint John, Canada.

Reynard, N., Crooks, S., Wilby, R.L. and Kay, A. 2004. Climate change and flood frequency in the UK. Proceedings of the 39th Defra Flood and Coastal Management Conference, University of York, UK.

Reynard, N.S., Kay, A.L. and Crooks, S.M. 2007. Flood risk in the UK: current and future. In: Brebbia, C.A. and Katsifarakis, K.L. (eds.) River Basin Management IV. WIT Transactions of Ecology and the Environment, 104, 299-310.

Rezaee, M., Nahtaj, M., Moghadamniya, A., Abkar, A. 2015. Comparison of Artificial Neural Network and SDSM Methods in the downscaling of annual rainfall in the HadCM3 modelling (case study: Kerman, Ravar and Rabor). Arid Biome Scientific and Research Journal, 8, 25-40.

Rezaie, E.E. and Bannayan, M. 2012. Rainfed wheat yields under climate change in northeastern Iran. Meteorological Applications, 19, 346-354.

Rochdane, S., Reichert, B., Messouli, M., Babqiqi, A. and Khebiza, M.Y. 2012. Climate change impacts on water supply and demand in Rheraya watershed (Morocco), with potential adaptation strategies. Water, 4, 28-44

Rössler, O. 2011. A climate change impact assessment study on mountain soil moisture with emphasis on epistemic uncertainties. Unpublished PhD thesis, University of Bonn, Switzerland.

Rössler, O., Diekkrüger, B. and Löffler, J. 2012. Potential drought stress in a Swiss mountain catchment - Ensemble forecasting of high mountain soil moisture reveals a drastic decrease, despite major uncertainties. Water Resources Research, 48, W04521.

Rostamian, R., Eslamian, S. and Farzaneh, M.R. 2013. Application of standardised precipitation index for predicting meteorological drought intensity in Beheshtabad watershed, central Iran. International Journal of Hydrology Science and Technology, 3, 63-76.

Samadi, S., Carbone, G.J., Mahdavi, M., Sharifi, F. and Bihamta, M.R. 2012. Statistical downscaling of climate data to estimate streamflow in a semi-arid catchment. Hydrology and Earth System Sciences Discussions, 9, 4869-4918.

Samadi, S., Carbone, G.J., Mahdavi, M., Sharifi., F. and Bihamta, M.R. 2013. Statistical downscaling of river runoff in a semi arid catchment. Water Resource Management, 27, 117-136.

Samadi, S., Ehteramian, K. and Sarraf, B.S. 2011. SDSM ability in simulate predictors for climate detecting over Khorasan province. Procedia – Social and Behavioural Sciences, 19, 741-749.

Samadi, S., Habibi, M., Farman, G. and Habibi, M. 2008. Climate risk management in north-east of Iran by statistical downscaling direct on GCMs output. Proceedings of Balkan Water Observation and Information System (BALWOIS) 2008, Ohrid, Republic of Macedonia.

Samadi, S., Nokhandan, M. and Farmani, G. 2006. Drought prediction over north-east of Iran using downscaling technique direct on GCM outputs. Proceedings of Balkan Water Observation and Information System (BALWOIS) 2006, Ohrid, Republic of Macedonia.

Samadi, S., Wilson, C.A.M.E. and Moradkhani, H. 2013. Uncertainty analysis of statistical downscaling models using Hadley Centre Coupled Model. Theoretical and Applied Climatology, 114, 673-690.

Santikayasa, I.P., Babel, M.S. and Shrestha, S. 2014. Assessment of the Impact of Climate Change on Water Availability in the Citarum River Basin, Indonesia: The Use of Statistical Downscaling and Water Planning Tools. In: Managing Water Resources under Climate Uncertainty (pp. 45-64). Springer International Publishing.

Saraf, V.R. and Regulwar, D.G. 2015. Evaluating potential impact of climate change on hydrological variables in Upper Godavari River sub basin, India using SWAT. Proceedings of the 36th IAHR World Congress, The Hague, The Netherlands.

Saraf, V.R. and Regulwar, D.G. 2016. Assessment of Climate Change for Precipitation and Temperature Using Statistical Downscaling Methods in Upper Godavari River Basin, India. Journal of Water Resource and Protection, 8, 31-45.

Sayad, T.A., Ali, A.M. and Kamel, A.M. 2016. Maximum and minimum temperature over Alexandria, Egypt using Statistical DownScaling Model (SDSM). Global Journal of Advanced Research, 3, 694-712.

Schibek, J. and Allen, D.M. 2006. Comparing modelled responses of two high-permeability unconfined aquifers to predicted climate change. Global and Planetary Change, 50, 50-62.

Scibek, J. and Allen, D.M. 2006. Modeled impacts of predicted climate change on recharge and groundwater levels. Water Resources Research, 42, W11405.

Sharifi, S. and Drapier, C. 2016. Statistical downscaling of climate data for the River Severn basin: a comparative study. In: EGU General Assembly Conference Abstracts (Vol. 18, p. 12689).

Sharma, M., Coulibaly, P. and Dibike, Y. 2011. Assessing the need for downscaling RCM data for hydrologic impact study. Journal of Hydrologic Engineering, 16, 534-539.

Shourav, M.S.A., Mohsenipour, M., Alamgir, M., Pour, S.H., Ismail, T. and Bahru, U.J. 2016. Historical trends and future projection of climate at Dhaka City of Bangladesh. Hurnal Teknologi (Sciences and Engineering), 78, 6-12.

Shrestha, A. 2014. Modeling Impact of Hydraulic Fracturing and Climate Change on Stream Low Flows: A Case Study of Muskingum Watershed in Eastern Ohio. Unpublished MSc Thesis, Youngstown State University, Ohio, US.

Shrestha, A., Sharma, S., McLean, C.E., Kelly, B.A. and Martin, S.C. 2016. Scenario analysis for assessing the impact of hydraulic fracturing on stream low flows using the SWAT model. Hydrological Sciences Journa, online.

Shrestha, S. and Fang, X. 2012. Application of WARMF model to study the effect of land use change and climate change in the Saugahatchee Creek Watershed. Proceedings of World Environmental and Water Resources Congress 2012: Crossing Boundaries. American Society of Civil Engineers, Albuquerque, New Mexico, pp1794-1805.

Shrestha, S. and Thin, N.M.M. 2015. Assessment of Climate Change Impacts on Irrigation Water Requirement and Rice Yield: A Case Study from Ngamoeyeik Irrigation Project in Myanmar. MARCO Symposium 2015, Tsukuba, Japan.

Shrestha, S. and Trang, B.T.T. 2015. Assessment of the climate-change impacts and evaluation of adaptation measures for paddy productivity in Quang Nam province, Vietnam. Paddy and Water Environment, 13, 241-253.

Shrestha, S., Deb, P. and Bui, T.T.T. 2014. Adaptation strategies for rice cultivation under climate change in Central Vietnam. Mitigation and Adaptation Strategies for Global Change, 21, 15-37.

Shukla, R., Deo, R. and Khare, D. 2015. Statistical downscaling of climate change scenarios of rainfall and temperature over Indira Sagar Canal Command area in Madhya Pradesh, India. In Proceedings of the 2015 IEEE 14th International Conference on Machine Learning and Applications, pp313-317.

Shuma, D. 2015. Impact Assessment of Climate and Land Use Change on Tikur Wuha River. Masters Thesis, Addis Abbaba University, Ethiopia.

Sigdel, M. and Ma, Y. 2015. Evaluation of future precipitation scenario using statistical downscaling model over humid, subhumid, and arid region of Nepal - a case study. Theoretical and Applied Climatology, 123, 453-460.

Singh, D., Glupta, R.D. and Jain, S.K. 2015. Statistical analysis of long term spatial and temporal trends of temperature parameters over Sutlej river basin, India. Journal of Earth System Science, 124, 17-35.

Singh, D., Gupta, R.D. and Jain, S.K. 2015. Assessment of impact of climate change on water resources in a hilly river basin. Arabian Journal of Geosciences, 8, 10625-10646.

Singh, D., Jain, S.K. and Gupta, R.D. 2015. Trend in observed and projected maximum and minimum temperature over NW Himalayan Basin. Journal of Mountain Science, 12, 417-433.

Singh, D., Kain, S.K. and Gupta, R.D. 2015. Statistical downscaling and projection of future temperature and precipitation change in middle catchment of Sutlej River Basin, India. Journal of Earth System Science, 124, 843-860.

Souvignet, M. and Heinrich, J. 2011. Statistical downscaling in the arid central Andes: uncertainty analysis of multi-model simulated temperature and precipitation. Theoretical and Applied Climatology, 106, 229-244.

Souvignet, M., Gaese, H., Ribbe, L., Kretschmer, N. and Oyarzun, R. 2010. Statistical downscaling of precipitation and temperature in north-central Chile: an assessment of possible climate change impacts in an arid Andean watershed. Hydrological Sciences Journal, 55, 41-57.

Su, X., Gough, W. and Shen, Q. 2016. Correlation of PM2.5 and meteorological variables in Ontario cities: statistical downscaling method coupled with artificial neural network. WIT Transactions on Ecology and the Environment, 207, pp.215-226.

Sultana, Z. and Coulibaly, P. 2011. Distributed modelling of future changes in hydrological processes of Spence Creek watershed. Hydrological Processes, 25, 1254-1270.

Tam, A., Gough, W.A., Kowal, S. and Xie, C.W. 2014. The fate of Hudson Bay lowlands palsas in a changing climate. Arctic Antarctic and Alpine Research, 46, 114-120.

Tang, F., Xu, Z. and Zuo, D. 2012. Impact of climate change on runoff in the upper Yellow River basin. Resource Science, 34, (6).

Tang, J., Niu, X., Wang, S., Gao, H., Wang, X. and Wu, J. 2016. Statistical and dynamical downscaling of regional climate in China: Present climate evaluations and future climate projections. Journal of Geophysical Research: Atmospheres, 121, 2110-2129.

Tang, X., Song, N,, Chen, Z. and Wang, J. 2016. Main climate scenarios of the future spatial and temporal distribution of reference crop evapotranspiration in

Huang-Huai-Hai area. Transactions of the Chinese Society of Agricultural Engineering, 32, 168-176.

Tang, Y.H. 2008. Statistical downscaling of daily precipitation over Shimen reservoir catchment. National Cheng Kung University (NCKU), Taiwan, 81pp.

Tao, X.E., Chen, H., Xu, C.Y., Hou, Y.K. and Jie, M.X. 2015. Analysis and prediction of reference evapotranspiration with climate change in Xiangjiang River Basin, China. Water Science and Engineering, 8, 273-281.

Tatsumi, K., Oizumi, T. and Yamashiki, Y. 2013. Introduction of daily minimum and maximum temperature change signals in the Shikoku region using the statistical downscaling method by GCMs. Hydrological Research Letters, 3, 48-53.

Tatsumi, K., Oizumi, T. and Yamashiki, Y. 2014. Assessment of future precipitation indices in the Shikoku region using a statistical downscaling model. Stochastic Environmental Research and Risk Assessment, 28, 1447-1464.

Tatsumi, K., Oizumi, T. and Yamashiki, Y. 2015. Effects of climate change on daily minimum and maximum temperatures and cloudiness in the Shikoku region: a statistical downscaling model approach. Theoretical and Applied Climatology, 120, 87-98.

Tavakol-Davani, H., Nasseri, M. and Zahraie, B. 2013. Improved statistical downscaling of daily precipitation using SDSM platform and data-mining methods. International Journal of Climatology, 33, 2561-2578.

Tekle, A. 2015. Assessment of Climate Change Impact on Water Availability of Bilate Watershed, Ethiopian Rift Valley Basin. Proceedings of the 12th IEEE International Conference on Green Innovation for Africon Renaissance (AFRICON).

Teutschbein, C., Wetterhall, F. and Seibert, J. 2011. Evaluation of different downscaling techniques for hydrological climate-change impact studies at the catchment scale. Climate Dynamics, 37, 2087-2105.

Teyso, T.A. and Murty, A.S.N. 2016. Effects of Droughts on Rain-Fed Agriculture in a Changing Climate: Case Study of Arba Minch Zuriya District, Ethiopia. Imperial Journal of Interdisciplinary Research, 2(5).

Tian, P., Tian, K. and Li, J. 2011. Statistical downscaling of future temperature and precipitation in upstream of the Ganjiang Basin. Journal of Basic Science and Engineering, 19, 57-67.

Toews, M.W. and Allen, D.M. 2009. Evaluating different GCMs for predicting spatial recharge in an irrigated arid region. Journal of Hydrology, 374, 265-281.

Toews, M.W. and Allen, D.M. 2009. Simulated response of groundwater to predicted recharge in a semi-arid region using a scenario of modelled climate change. Environmental Research Letters, 4, Article# 035003.

Tryhorn, L. and DeGaetano, A. 2010. A comparison of techniques for downscaling extreme precipitation over the Northeastern United States. International Journal of Climatology, 31, 1975-1989.

Tukimat, N.N.A. and Harun, S. 2011. The projection of future rainfall change over Kedah, Malaysia with the Statistical DownScaling Model. Malaysian Journal of Civil Engineers, 23, 67-79.

Tukimat, N.N.A. and Harun, S. 2013. Multi-correlation matrix (M-CM) for the screening complexity in the Statistical Downscaling Model (SDSM). International Journal of Engineering Science and Innovative Technology, 2, 331-343.

Tukimat, N.N.A. and Harun, S. 2014. Optimization of water supply reservoir in the framework of climate variation. International Journal of Software Engineering and Its Applications, 8, 361-378.

Tukimat, N.N.A., Harun, S. and Shahid, S. 2012. Comparison of different methods of estimating potential evapotranspiration at Muda Irrigation Scheme of Malaysia. Journal of Agricultural and Rural Development in the Tropics and Subtropics, 113, 77-85.

Van Dau, Q. and Kuntiyawichai, K. 2015. An assessment of potential climate change impacts on flood risk in Central Vietnam. European Scientific Journal, 1, 667-680.

Vidal, J-P. and Wade, S.D. 2008. Multimodel projections of catchment-scale precipitation regime. Journal of Hydrology, 353, 143-158.

Wang, J., Wang, H. and Wang, B. 2016. Changes of future air temperature in the Baiyangdian Basin based on statistical downscaling technique. Journal of Nanjing University of Information Engineering, 8, P467.

Wang, L., Guo, S., Hong, X., Guo, J. and Liu, Z. 2014. Simulation and prediction of future precipitation and runoff change in the Ganjiang Basin. Journal of Water Resources Research, 3, 522-531.

Wang, L., Guo, S., Hong, X., Liu, D. and Xiong, L. 2016. Projected hydrologic regime changes in the Poyang Lake Basin due to climate change. Frontiers of Earth Science, pp.1-19.

Wang, W., Sun, F., Peng, S., Xu, J., Luo, Y. and Jiao, X. 2013. Simulation of response to water requirement for rice irrigation to climate change. Transactions of the Chinese Society of Agricultural Engineering, 29, 90-98.

Wang, W., Xing, W. and Shao, Q. 2015. How large are uncertainties in future projection of reference evapotranspiration through different approaches? Journal of Hydrology, 524, 696-700.

Wang, W., Xing, W., Shao, Q., Yu, Z., Peng, S., Yang, T., Yong, B., Taylor, J. and Singh, V.P. 2013. Changes in reference evapotranspiration across the Tibetan Plateau: Observations and future projections based on statistical downscaling. Journal of Geophysical Research: Atmospheres, 118, 4049-4068.

Wang, W., Yu, Z., Zhang, W., Shao, Q., Zhang, Y., Luo, Y., Jiao, X. and Xu, J. 2014. Responses of rice yield, irrigation water requirement and water use efficiency to climate change in China: Historical simulation and future projections. Agricultural Water Management, 146, 249-261.

Wang, X., Yang, T., Krysanova, V. and Yu, Z. 2015. Assessing the impact of climate change on flood in an alpine catchment using multiple hydrological models. Stochastic Environmental Research and Risk Assessment, 29, 2143-2158.

Wang, X., Yang, T., Shao, Q., Acharya, K., Wang, W. and Yu, Z. 2012. Statistical downscaling of extremes of precipitation and temperature and construction of their future scenarios in an elevated and cold zone. Stochastic Environmental Research and Risk Assessment, 26, 405-418.

Weiguang, W., Fengchao, S., Shizhang, P., Junzeng, X., Yufeng, L. and Xiyun, J. 2013. Simulation of response of water requirement for rice irrigation for climate change. Transactions of the Chinese Society of Agricultural Engineering, 14, S162.5.

Wetterhall, F., Bárdossy, A., Chen, D., Halldin, S., and Xu, C. 2007. Daily precipitation-downscaling techniques in three Chinese regions. Water Resources Research, 42, W11423, doi:10.1029/2005WR004573.

Wetterhall, F., Halldin, S. and Xu, C.Y. 2007. Seasonality properties of four statistical-downscaling methods in central Sweden. Theoretical and Applied Climatology, 87, 123-137.

Whitehead, P.G., Futter, M. and Wilby, R.L. 2006. Impacts of climate change on hydrology, nitrogen and carbon in upland and lowland streams: Assessment of adaptation strategies to meet Water Framework Directive objectives. Proceedings of the British Hydrological Society Conference, Durham, UK.

Whitehead, P.G., Wade, A. and Butterfield, D. 2008. Potential impacts of climate change on water quality in six UK rivers. Proceedings of the British Hydrological Society 10th National Hydrology Symposium, Exeter, UK.

Whitehead, P.G., Wilby, R.L., Butterfield, D., and Wade, A.J. 2006. Impacts of climate change on nitrogen in a lowland chalk stream: An appraisal of adaptation strategies. Science of the Total Environment, 365, 260-273.

Wilby, R.L. 2003. Past and projected trends in London's urban heat island. Weather, 58, 251-260.

Wilby, R.L. 2005. Constructing wet season precipitation scenarios for a site in the Anti Atlas Mountains,Morocco. Proceedings of the Conference on Optimising Land and Water Resources in Arid Environments, Agadir, Morocco.

Wilby, R.L. 2005. Uncertainty in water resource model parameters used for climate change impact assessment. Hydrological Processes, 19, 3201-3219.

Wilby, R.L. 2008. A review of climate change scenarios for northeast Brazil: Informing climate change adaptation and water resources management policies. A Technical Brief for Tearfund. Tearfund, 25pp.

Wilby, R.L. 2008. Climate change scenarios for the Republic of Yemen. Report on behalf of the World Bank, 27pp.

Wilby, R.L. 2008. Constructing climate change scenarios of urban heat island intensity and air quality. Environment and Planning B: Planning and Design, 35, 902-919.

Wilby, R.L. 2008. Dealing with uncertainties of future climate: The special challenge of semi-arid regions. Proceedings of the Water Tribune, Expo Zaragoza, Spain.

Wilby, R.L. 2008. Downscaling future skew surge statistics at Sheerness, Kent. Phase 3 studies – synthesis report. Thames Estuary 2100, Environment Agency, 27pp.

Wilby, R.L. 2009. An evaluation of climate data and downscaling options for Yemen. Report on behalf of the World Bank, 31pp.

Wilby, R.L. 2010. Climate change projections and downscaling for Jordan, Lebanon and Syria. Synthesis Report on behalf of the World Bank, 39pp.

Wilby, R.L. 2010. Improving the climate resilience of Tajikistan's hydropower sector: Climate variability and change in Tajikistan. Report on behalf of the European Bank for Reconstruction and Development, London, 30pp.

Wilby, R.L. 2012. A synthesis of climate change scenarios and impacts on Tunisia. Report on behalf of the World Bank, 39pp.

Wilby, R.L. and Dawson, C.W. 2013. SDSM-DC: A smarter approach to downscaling for decision-making? American Geophysical Union, Fall Meeting, abstract #GC41E-07.

Wilby, R.L. and Dawson, C.W. 2013. Statistical DownScaling Model – Decision Centric (SDSM-DC) Version 5.1 Supplementary Note. Loughborough University, UK, 9pp.

Wilby, R.L. and Dawson, C.W. 2013. The Statistical DownScaling Model (SDSM): Insights from one decade of application. International Journal of Climatology, 33, 1707-1719.

Wilby, R.L. and Direction de la Météorologie National. 2007. Climate change scenarios for Morocco. Technical Report prepared on behalf of the World Bank, Washington, 23pp.

Wilby, R.L. and Harris, I. 2006. A framework for assessing uncertainties in climate change impacts: low flow scenarios for the River Thames, UK. Water Resources Research, 42, W02419, doi:10.1029/2005WR004065.

Wilby, R.L., Dawson, C.W. and Barrow, E.M. 2002. SDSM - a decision support tool for the assessment of regional climate change impacts. Environmental and Modelling Software, 17, 145-157.

Wilby, R.L., Dawson, C.W., Murphy, C., O'Connor, P. 2014 and Hawkins, E. 2014. The Statistical DownScaling Model – Decision Centric (SDSM-DC): Conceptual basis and applications. Climate Research, 61, 251-268.

Wilby, R.L., Tomlinson, O.J. and Dawson, C.W. 2003. Multi-site simulation of precipitation by conditional resampling. Climate Research, 23, 183-194.

Wilby, R.L., Whitehead, P.G., Wade, A.J., Butterfield, D., Davis, R. and Watts, G. 2006. Integrated modelling of climate change impacts on the water resources and quality in a lowland catchment: River Kennet, UK. Journal of Hydrology, 330, 204-220.

Wise, K. 2009. Climate-based sensitivity of air quality to climate change scenarios for the southwestern United States. International Journal of Climatology, 29, 87-97.

Wu, H. and Chen, B. 2015. Uncertainty analysis for propagation effects from statistical downscaling to hydrological modeling. Proceedings of The International Conference on Marine and Freshwater Environments, St. John's NL, Canada August 6-8, 2014.

Xing, W., Wang, W., Shao, Q., Taylor, J., Ding, Y., Fu, J. and Feng, X. 2016. Statistical downscaling of reference evapotranspiration in Haihe River Basin: applicability assessment and application to future projection. Hydrological Sciences Journal, (just-accepted).

Xu, C., Zhao, J., Deng, H., Fang, G., Tan, J., He, D., Chen, Y., Chen, Y. and Fu, A. 2016. Scenario-based runoff prediction for the Kaidu River basin of the Tianshan Mountains, Northwest China. Environmental Earth Sciences, 75, 1126.

Xu, Z. and Liu, L. 2012. Detection of climate change and projection of future climate change scenarios in Taihu Lake Basin. Advances in Science and Technology of Water Resources, 32, 1-7.

Xu, Z. and Liu, Z. 2014. Climate change scenarios and the impact on runoff. In: Chen, Y. (ed) Water Resources Research in Northwest China, Chapter 9, pp311-357. Springer, Netherlands.

Xu, Z.X., Zhao, F.F. and Li, J.Y. 2009. Response of streamflow to climate change in the headwater catchment of the Yellow River basin. Quaternary International, 208, 62-75.

Xuesong,C., Tang, R., Wang, W. and Xu, J. 2016. Two statistical downscaling model in Luanhe River basin's precipitation forecasts. Journal of Yangzhou University: Natural Science, 19, 28-32.

Yaghobi, M. and Massah Bavani, A. 2016. Comparison and evaluation of different sources of uncertainty in the study of climate change impact on runoff in semi-arid basins (case study: Azam River Basin). Iran-Water Resources Research, 11, 113-130.

Yan, T., Shen, Z., Heng, L. and Dercon, G. 2016, April. Statistical downscaling of CMIP5 outputs for projecting future maximum and minimum temperature over the Haihe River Bain, China. In: EGU General Assembly Conference Abstracts (Vol. 18, p. 17062).

Yang, C., Wang, N. and Wang, S., 2016. A comparison of three predictor selection methods for statistical downscaling. International Journal of Climatology, online.

Yang, J.-S., Chung, E.-S., Kim, S.-U., Kim, T.-W. and Kim, Y.D. 2011. Prioritization of water management under climate change and urbanization using multi-criteria decision making methods. Hydrology and Earth System Sciences, 16, 801-814.

Yang, T., Li, H., Wang, W., Xu, C.-Y. and Yu, Z. 2012. Statistical downscaling of extreme daily precipitation, evaporation, and temperature and construction of future scenarios. Hydrological Processes, 26, 3510-3523.

Yao, M.-H., Jhong, Y.-S. and Hsu, Y.-H. 2015. Evaluation of rice production potential in Taiwan using SDSM future climate data. Crop, Environment and Bioinformatics, 12, 142-154.

Yates, D., Miller, K.A., Wilby, R.L. and Kaatz, L. 2015. Decision-centric adaptation appraisal for water management across Colorado's Continental Divide. Climate Risk Management, 10, 35-50.

Yimer, G., Jonoski, A. and Griensven, A.V. 2009. Hydrological response of a catchment to climate change in the upper Beles river basin, Upper Blue Nile, Ethiopia. Nile Basin Water Engineering Scientific Magazine, 2, 49-59.

Yontchang, G.D. 2012. Assessment and modelling of climate variability and change in Cameroon (central Africa). Unpublished MSc Thesis, University of Reading, UK, 50pp.

Youn, S., Chung, E-.S., Kang, W.G. and Sung, J.H. 2012. Probabilistic estimation of the storage capacity of a rainwater harvesting system considering climate change. Resources, Conservation and Recycling, 65, 136-144.

Yu, K.X., Xiong, L.H., Dong, L.H. and Wan, M. 2011. Drought analysis based on precipitation generation from GCMs for the Qingjian River Basin. In: Bloschl, G., Takeuchi, K., Jain, S., Farnleitner, A. and Schumann, A. (eds). Risk in Water Resources Management, IAHS 347, 173-179.

Yuqing, S. and Yuelong, Z. 2015. Extended Statistical Downscaling Model Using Data Mining Methods for Modeling Hydrologic Time Series. Journal of Computational and Theoretical Nanoscience, 12, 5081-5088.

Zarghami, M., Fotookian, M.R., Safari, N. and Aslanzadeh, A. 2016. Reservoir operation using system dynamics under climate change impacts: a case study of Yamcho reservoir, Iran. Arabian Journal of Geosciences, 9,678.

Zenebe Abraha, A., Aregay, G., Girma, A., Shiferaw, H., Nyssen, J., Deckers, J. and Poesen, J. 2015. The impact of future climate change on runoff and sediment yield towards the Geba reservoir, northern Ethiopia. In: TropiLakes2015 international conference on tropical lakes in a changing environment: water, land, biology, climate and humans (p.19). Bahir Dar University.

Zenebe, A., Shiferaw, H., Mezgebu, A., Nyssen, J., Girma, A., Gebresamuel, G., Deckers, J. and Poesen, J. 2014. Impact of climate change on hydrological response in the headwaters of Tekeze basin, Northern Ethiopia. EGU General Assembly, Vienna, Austria, id 5155.

Zeray, L., Roehrig, J. and Chekol, D.A. 2006. Climate change impact on Lake Ziway watershed availability, Ethiopia. Proceedings of the Conference on International Agricultural Research for Development, University of Bonn, October 11-13, 2006.

Zhang, L., Lu, W., An, Y., Li, D. and Gong, L. 2012. Response of non-point pollutant loads to climate change in the Shitoukoumen reservoir catchment. Environmental Monitoring and Assessment, 184, 581-594.

Zhang, Y., You, Q., Chen, C. and Ge, J. 2016. Impacts of climate change on streamflows under RCP scenarios: A case study in Xin River Basin, China. Atmospheric Research, 178, 521-534.

Zhao, H. and Jingren, Z. 2011. Analysis of statistical downscaling of future climate change trends for Changchun City. Rural Hydropower in China, 10, 47-50 [in Chinese].

Zhou, F., Zhang, A., Li, R. and Hoeve, E. 2009. Spatio-temporal simulation of permafrost geothermal response to climate change scenarios in a building environment. Cold Regions Science and Technology, 56, 141-151.

Zhou, J., He, D., Xie, Y., Liu, Y., Yang, Y., Sheng, H., Guo, H., Zhao, L. and Zou, R. 2015. Integrated SWAT model and statistical downscaling for estimating streamflow response to climate change in the Lake Dianchi watershed, China. Stochastic Environmental Research and Risk Assessment, 29, 1193-1210.

Zuo, D., Xu, Z., Zhao, J. and Yang, X. 2013. Impact of climate change on runoff in the Wei River Basin, China. Journal of Water Resources Research, 2, 364-370.

Zuo, D., Xu, Z., Zhao, J., Abbaspour, K.C. and Yang, H. 2015. Response of runoff to climate change in the Wei River basin, China. Hydrological Sciences Journal, 60, 508-522.

Zuo, D.-P., Xu, Z.-X., Li, J.-Y. and Liu, Z.-F. 2011. Spatiotemporal characteristics of potential evapotranspiration in the Weihe River basin under future climate change. Advances in Water Science, 22, 455-461.