



























Hydrology and Water Resources. University of Venda, South Africa.

[52] Seneviratne, S. I., et al. (2012), changes in climate extremes and their impacts on the natural physical environment, in *Managing the Risk of Extreme Events and Disasters To Advance Climate Change Adaptation, A Special Report Of Working Groups I and II of the Intergovernmental Panel on Climate Change (IPCC)*, edited by C. B. Field et al., pp.109-230, Cambridge Univ. Press, Cambridge UK, and New York, NY, USA.

[53] NASA, 2002: *Climate Change; 50 years Past and Possible Futures*, New York City Press, New York.

[54] Kenabatho P., Parida B., Moalafhi D. 2012 The value of large-scale climate variables in climate change assessment: the case of Botswana's rainfall. *Phys. Chem. Earth A/B/C* 50, 64–71.

[55] Meshesha T. W., Tripathi S., Khare D. 2016 Analyses of land use and land cover change dynamics using GIS and remote sensing during 1984 and 2015 in the Beressa Watershed Northern Central Highland of Ethiopia