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**Jean M Foster\*** ([jean.foster@alumni.duke.edu](mailto:jean.foster@alumni.duke.edu)), MS D446, Los Alamos, NM 87545, **Jasper Vrugt** ([jasper@uci.edu](mailto:jasper@uci.edu)), 4130 Engineering Gateway, Irvine, CA 92697, **Cathy Wilson** ([cjw@lanl.gov](mailto:cjw@lanl.gov)), MS D446, Los Alamos, NM 87545, and **Joel Rowland** ([jrowland@lanl.gov](mailto:jrowland@lanl.gov)), MS D401, Los Alamos, NM 87545. *Application of Markov Chain Monte Carlo simulations to detect the impact of climate change on river discharge time series records of arctic rivers.*

There is a wealth of river discharge data that can be used to assess changes in Arctic hydrology resulting from climate change. In this talk, I will present preliminary findings of a Markov Chain Monte Carlo (MCMC) data analysis framework that is used to detect changes in the active layer in permafrost dominated landscapes. (Received February 23, 2010)