

Solar and volcanic impact on climate change

T. V. Barlyaeva and D. I. Ponyavin

Institute of Physics, St.Petersburg State University, Russia (tbarl@geo.phys.spbu.ru)

Solar and volcanic activity time-series in relation to climatic changes are studied using wavelet and cross wavelet transforms. We have found transient correlations, episodic interconnections between various regional proxies that present evidence of nonlinear influence of external forcing on climate. It seems, that is very important in view of validation the proxy data from linear reconstruction techniques.