Recognition the Climate Change in International anzali wetland Using Mann-Kendall test

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Abstract

Climate change is one of the modern problems for human beings. It is a disaster for the earth. The recent climate changes are mostly influenced by increase in amount of CO2 and some greenhouse gases in atmosphere. First step to management and environment planning, especially in wetland ecosystems, is recognition of it characteristic. Anzali wetland located in south-west region of Caspian Sea and regarded as the most important wetland in Iran. In this research, trend of climate change in the Anzali Wetland considered. So we considered the series of annual precipitation and every three parameters of temperature in the anzali site during statistical period (1951-2005) in this research, is used for detecting trends than Mann-Kendal non-parametric test. The result showed the anzali site parameter of maximum temperature has negative trend، minimum temperature have positive trend and Rainfall has non-trend, although the time of occurrence and the kind of changes in the parameter of temperature indicate abruptly increasing and decreasing changes. The abruptly decreasing changes in maximum and increasing changes minimum temperature obviously seen of year.so it can understand that climate change of region has more correlation with temperature and precipitation changes.

Keyword: Climate change, Anzali Wetland, Ecosystem, Man-Kendall, Trend.