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## **Detection of statistically significant trends in the short duration rainfalls (SDR) of Adana city**

R. Acar and S. Şenocak

Atatürk University, Engineering Faculty, Civil Engineering Department, Erzurum, Turkey  
(racar@atauni.edu.tr / Fax: +90 442 2360957 / Phone: +90 442 2314782)

Short duration rainfalls (SDR), ranging from 5 to 60 minutes, are studied at Adana city station in Turkey to search for possible trends. Annual extreme precipitation records for the station are analyzed using the Mann-Kendall statistic test statistic at levels of significance of  $\alpha = 0.01$  and  $\alpha = 0.05$  to demonstrate the existence any possible trends. The results show that station has positive trends for 5, 10, 15 and 30 minutes. These changes could be associated with regional climate changes and are consistent with projections related to global warming phenomena.