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Edited by

Recep EFE
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Climatic Variation and Homogeneity Analysis in Number of Tropical and Summer Days at the Adana Sub-Region

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Abstract

The study area comprises Adana sub-region which includes fertile lands and agricultural towns of the Mediterranean Region and also corresponds to eastern part of this region. In the study the variation and trends in tropical and summer days at this part between the years 1961-2014 at 14 stations were examined. Homogeneity of temperature series and trends in annual and seasonal temperature series were tested with the methods of Kruskal-Wallis homogeneity test, linear least squares regression, Mann-Kendall and Spearman rank correlation coefficient tests, respectively. Major findings of the study can be summarized as follows: (1) annual numbers of summer and tropical days are above long-term average and indicate an evident increasing trend from 1988. Especially the uninterrupted positive anomaly values that could be observed in all stations from 1992 are remarkable. (2) However, decreasing trend of tropical day was detected in Adana during summer and Ceyhan during autumn. (3) The significant increasing trend is observed statistically in Dörtyol, İskenderun, Göksun, Anamur, Yumurtalık, Antakya and Mersin for annual summer days. (4) For annual numbers of tropical days are detected statistically significance at increasing trend in Karataş, Göksun, Kahramanmaraş, Anamur, Yumurtalık, Dörtyol, Antakya, Iskenderun, Elbistan and Mersin. In addition, both numbers of summer and tropical days are observed the increasing trend in Kahramanmaraş during spring and Mersin during autumn. (5) As a result of these conditions, eastern Mediterranean Part has thermal conditions getting hotter and increasing daytime temperatures during warm period of the year. In case of continuation of these conditions, human health and agricultural sector will have been adversely affected.

Key Words: Climatic change, Extreme temperature, Seasonal variation, Mann-Kendall test, Eastern Mediterranean.