عنوان مقاله:

Investigating temporal-spatial changes in the average temperature of the Abarku-Sirjan basin

محل انتشار:

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خلاصه مقاله:

Background and objective: Temporal-spatial changes in climate parameters, especially temperature, are considered one of the most obvious signs of climate change in a region. The aim of this study was to investigate the average temperature changes in the Abarku-Sirjan basin.Materials and methods: In this regard, the daily analyzed data of ERA-Interim with a resolution of ۰.۲۵ * ۰.۲۵ degrees during the period ۱۹۷۹-۲۰۱۹ were used. According to the dimensions of the studied data, ۳۳۸ points covered the whole basin. The trend of the studied data was examined using the Mann-Kendall test. Hot spots analysis was then performed on them.Results and conclusion: The results showed that the temperature has an increasing trend in most months of the year. In April, May, August, and December, some parts of the basin have no trend and the rest of the basin has an increasing trend. In general, no decreasing trend has occurred in any part of the basin during the study period. Hot spot analysis also showed that the northwest of the basin has cold spots and the south of the basin has hot spots. In general, in the basin, hot spots are more frequent in the warm months of the year and cold spots are more prevalent in cold months of the year.

کلمات کلیدی:

temperature, Trend, Abarku-Sirjan basin, spatial statistics