عنوان مقاله:

Trend Analysis and Temporal and Spatial Distribution of Wet Bulb Globe Temperature as a Heat Stress Index in Iran during the Summer Season over a ۳-Year Period

محل انتشار:

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خلاصه مقاله:

Introduction: Global warming is one of the most important environmental problems that have raised researchers' attention. The present study aimed to analyze heat stress trends using the Wet Bulb Globe Temperature (WBGT) index in the country of Iran during the summer over a \(\mathbb{P}^\circ*-year period. Materials and Methods: Daily summertime statistical data regarding mean temperature and mean relative humidity, taken from \(\mathbb{P}^\circ* synoptic meteorological stations across Iran during a \(\mathbb{P}^\circ*-year period were obtained from the Iranian National Meteorological Department. The De Martonne climate classification system was used to categorize various climate regions of Iran. The WBGT index was calculated using the formula given by the Australian Bureau of Meteorology. The Mann-Kendall statistical test and the Sen's slope estimator were used to analyze the trends of the WBGT index. Results: The WBGT index had an upward trend during the three months of June, July, and August in Y1.FY%, \(\Delta Y1.FY\), \(\Delta Y1.FY\

كلمات كليدى:

.Heat Stress, Wet Bulb Globe Temperature, Trend Analysis, Iran

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