

A CONCEPTUAL MODEL OF DROUGHT CHARACTERIZATION IN TURKEY

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Drought is a natural phenomenon characterized by a deficiency of precipitation which has an adverse effect on biota, including plants, animals, and humans. The impact of drought is wide ranging. A conceptual model has been applied to Turkey by enhancing model parameters with various GIS techniques.

The model originally developed as a conceptual drought characterization across the climatic spectrum, primarily suited to midlatitudinal regions. The model estimates expected values of duration, intensity, and recurrence interval as a function of the ratio of mean annual precipitation to annual global terrestrial precipitation.

This study is essential for the systematic analysis of droughts and the assessment of changes in drought characteristics due to climatic changes throughout Turkey.