عنوان مقاله:

Soil moisture and indices affecting soil drought

محل انتشار:

هشتمین کنگره سالانه بین المللی عمران، معماری و توسعه شهری (سال: 1401)

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خلاصه مقاله:

Although surface and subsurface monitoring play an important role in drought and waterand soil resource management, there still needs to be a database for some land-baseddrought monitoring. Soil moisture in Iran has been measured in a limited area using datafrom ground measurement stations with a limited spatial distribution. Remote sensing hasproven to be an efficient tool for drought monitoring. In this article, indicators directlyand indirectly related to drought were used to monitor drought and improve themanagement of soil resources, including surface soil moisture, subsurface soil moisture, vegetation evapotranspiration, soil evaporation, and soil temperature. In Iran, soilmoisture was monitored at a depth of 1° cm for A years. The monthly average values ofmaximum and minimum soil moisture respectively were YY.119 Kg/mY and 1°.YY4Kg/mY. Also, soil temperature values at this depth were "°F.V°1 °K and YA°.11°& °Kmoisture. The maximum increase in the soil moisture and temperature, soil temperature was *F*.& °K, rising from Y9°.& °K to Y9Y °K inY°1Y. The minimum decrease in the soil moisture trend line in Y°1Y was 1° kg/mY, which, reached YY kg/mY to 1° kg/mY to 1° kg/mY. The increase in soil temperature was & °K, rising from Y9°.% to Y9Y °K in Y°1A.

کلمات کلیدی:

Surface and subsurface soil moisture, Vegetation evapotranspiration, Soil evaporation, Soil temperature, Time series, Remote sensing

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