

ESTIMATE THE TEMPERATURE OF AN-NAJAF CITY BY USING REMOTE SENSING TECHNIQUES AND SATELLITE IMAGES

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ABSTRACT

The temperature is of high importance on the climate change. It is the most important climate elements which in turn affects on other climatic elements. You can rely on remote sensing techniques in many fields, including in estimating the degree of the earth's surface temperature and to know the effect of land use in temperature distribution. The surface temperature of An-Najaf City and surroundings have determined by lunar satellite images (Landsat_8), where both packages 10 and 11 thermal using special mathematical relationships concerning temperature to calculate the Land Surface Temperature (LST). The study of remote sensing indices has proved the effective discrimination of land use applications.

KEYWORDS: Land Surface Temperature (LST), Lunar Satellite Images & Remote Sensing Techniques