

DEVELOPMENT OF INSOLATION ASSESSMENT EQUATION FOR ESTIMATION OF EVAPORATION

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ABSTRACT

The aspect of evaporation constitutes as important loss of water from open surfaces like channels, reservoirs, lakes, etc. An attempt has been made in this paper to develop a prediction equation correlating incident solar radiation (Q_s) with air temperature (T) from the records obtained from Sunshine Recorder installed at the Digha Meteorological Station of R.R.I, W.B. Another equation has been developed correlating mean monthly air temperature (T) with the ratio of monthly total evaporation (E) to monthly mean of daily solar radiation (Q_s). By observing only air temperature, the very common and easily measurable parameter, direct estimation of evaporation loss can be done with the help of the above two equations.