


Turkish Journal of Physics

Turkish Journal

Relationship Between Global Solar Radiation and Sunshine Duration for Onne, Nigeria

of
Physics

Louis E. AKPABIO, Sunday E. ETUK
Department of Physics, University of Uyo, Uyo-NIGERIA
e-mail: sunetuk2002@yahoo.com

 [Keywords](#)
[Authors](#)

Abstract: Measurements of global solar radiation and sunshine duration data during the period from 1984 to 1999 at Onne (within the rainforest climatic zone of southern Nigeria) were used to establish an Angstrom-type correlation equation. Five other commonly used correlations between global solar radiation and sunshine duration were also used to estimate global solar irradiation for Onne and their results are compared with our model. A good agreement (greater than 90% in most cases) was observed between the measured and the predicted values of our model.

Key Words: Global solar radiation, Sunshine duration, relationship



phys@tubitak.gov.tr

[Scientific Journals Home
Page](#)

Turk. J. Phys., **27**, (2003), 161-167.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Phys.vol.27,iss.2.](#)