Contribution ID: **98** Type: **Poster Presentation**

Atmospheric turbidity over Gauteng

Thursday, 14 July 2011 17:00 (2 hours)

<p>We have analysed broad-band global solar irradiation measurements collected at the Soweto campus of the University of Johannesburg over the two-year period 1998-1999. We estimate the direct and diffuse irradiation using radiation models, and utilise the results to determine the atmospheric turbidity for all cloud-free days. From this we calculate aerosol densities and the solar radiation potential for the location. We further evaluate the applicability of several irradiation models, incorporating molecular absorption, Rayleigh and Mie scattering, to this part of Gauteng.

Level (Hons, MSc,
   PhD, other)?

MSc

Consider for a student
   award (Yes / No)?

Yes

Would you like to <br> submit a short paper <br> for the Conference
 Proceedings (Yes / No)?

Yes

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