Geophysical Research Abstracts, Vol. 7, 05378, 2005 SRef-ID: 1607-7962/gra/EGU05-A-05378 © European Geosciences Union 2005



Exponential distribution of tropical rainfall

I. Folkins(1) and H. Carmichael(1) Department of Physics and Atmospheric Science, Dalhousie University

The daily rainfall product from the TRMM satellite indicates that the frequency of occurrence of rainfall rates in the tropics follows an exponential distribution. This confirms, from a large scale perspective, previous findings from local rain guage measurements. The sensitivity of the shape of this distribution to the underlying sea surface temperature, and land-sea contrasts will be discussed