

〈シンポジウム〉
「UVAに光を当てる」

紫 外 線 の 測 定 ——太陽UVAとUVBの特徴——

佐々木政子*

Measurement of Solar UV Radiation — Characteristics of solar UVA and UVB —

Masako SASAKI*

Abstract

Intensive solar UV radiation studies in relation to ozone depletion revealed the importance of accurate measurement of not only solar UVB radiation but also solar UVA radiation. It is known that solar UVB radiation reaches the earth at a rate of less than 0.2 percent of the total solar radiation, while that of the UVA is about 5–7 percent of the total. Both can have harmful biological effects. This paper describes the method of UV measurements, in particular, those of solar UV radiation and provides a list of commercially available band-spectral UV radiometers. Characteristics of the daily, monthly and yearly profiles of solar UVA and UVB radiation are also described herein on the basis of observational results of band-spectral solar UV radiometers.

Key words: band-spectral UV radiometer, characteristic of solar UV, solar UVA, solar UVB, solar UV measurement.