

**GROUND-BASED SPECTRAL SOLAR UV-B IRRADIANCE
MONITORING IN UCCLE (BRUSSELS - BELGIUM)
DURING THE 1993-1995 PERIOD.**

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Since 1991, an automatic ground-based Spectral Solar UV-B, UV-A and Visible monitoring instrumentation has been developed from modified Jobin-Yvon HD-10 spectro-radiometers at the Belgian Institute for Space Aeronomy in Uccle - Brussels, Belgium (51°N, 4°E). This station is fully operational since March 1993 and provides spectral measurements (from 210 to 680 nm) of the total solar irradiance (field of view of 2π sr), the direct solar irradiance (3 solar diameters) and of the diffuse irradiance at the zenith (field of view of ± 5 deg), every 15 minutes, for zenith angles smaller than 100 degrees. This station is briefly described.

Seasonal and daily variations of the UV-B irradiance in the Brussels area are presented and discussed in terms of atmospheric parameters as solar zenith angle, total ozone contents and profile, cloud layer, etc. Both spectral and integrated fluxes are considered.

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