

The pyranometers used to measure downward solar irradiance belong to the Laboratory of Radiation and Atmospheric Aerosol from Instituto de Astronomia, Geofísica e Ciências Atmosféricas da Universidade de São Paulo, under coordination of Prof. Marcia A. Yamasoe. The instruments were acquired with financial support by Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP), grant number 2001/08574-9. Use of the data are free of charge, we only request that users acknowledge the lab.

Data are collected every minute, but to save space, only data from 8:00 AM to 11:59 PM are saved in the files. Each file corresponds to one year of measurements.

The files are organized as follows:

Column 1: year

Column 2: day of the year (from 1 to 365 or 366, if it is a leap year)

Column 3: fraction of hour (UTC). Example: 8:30 P.M. = 20.5

Column 4: Irradiance in watts per square meters.