

Air Mass Zero Spectra References


- ASTM Standard G159-98 "Standard Tables for Reference Solar Spectral Irradiance at Air Mass 1.5: Direct Normal and Hemispherical for a 37° Tilted Surface" (http://www.astm.org/cgi-bin/SoftCart.exe/DATABASE.CART/REDLINE_PAGES/G159.htm?L+mystore+zpuv4702+1057198140.)
- ASTM Standard G173-03 "Standard Tables for Reference Solar Spectral Irradiances: Direct Normal and Hemispherical on a 37 Tilted Surface". (http://www.astm.org/cgi-bin/SoftCart.exe/DATABASE.CART/REDLINE_PAGES/G173.htm?L+mystore+zpuv4702+1057198140)
- Thullier, G. et al., (1997) "Observation of the UV solar spectral irradiance between 200 and 350 nm during the ATLAS 1 mission by the SOLSPEC spectrometer." Solar Physics 171, 283-302
- Thullier, G. et al., (1998) "Observation of the solar spectral irradiance from 200 nm to 870 nm during the ATLAS 1 and ATLAS 2 missions by the SOLSPEC spectrometer." Metrologia 35, 689-695
- Thullier, G. et al., (1998) "The visible solar spectral irradiance from 350 nm to 850 nm as measured by the SOLSPEC spectrometer during the ATLAS 1 mission." Solar Physics, 177, 41-61
- Thullier, G. et al., (2003) " The solar spectral irradiance from 200 nm to 2400 nm as measured by the SOLSPEC spectrometer from the ATLAS 1-2-3 and EURECA missions. Solar Physics
- Thullier, G. et al., (2003) "Sun reference spectra from solar cycle 22 measurements" in Solar Variability and its effect on the earth's atmospheric and climate system" J. Pap, ed. American Geophysical Union Monograph, in press (June, 2003).
- Cebula et al.,(1996) "Observations of the solar irradiance in the 200-350 nm interval during the ATLAS-1 mission: a comparison among three sets of measurements, SSBUV, SOLSPEC, and SUSIM. Geophysical Research Letters, #23, 2289-2292
- Chance, K, and Spurr, R.J.D, (1997) "Ring effect studies, Rayleigh scattering, including molecular parameters for Rotational Raman Scattering and the Fraunhofer spectrum. Applied Optics #36, 5224-5230.
- Kurucz, R.L., (1995)"The solar irradiance by computation". Proc 17th Annual Conference Transmission Models, Phillips Laboratory, Hanscom AFB, PL-TR-95-2060. G.P. Anderson, et al. Eds. PP 333-334
- Kurucz, R.L., et al. (1984) "Solar Flux atlas from 296 to 1300 nm" National Solar Observatory Atlas No. 1. NOAO, Sunspot, NM.
- Thekaekara, M.P., (1965) "The solar constant and spectral distribution of solar radiant flux." Solar Energy #9, 7-20.
- Thekaekara, M.P., and Drummond, A.J., (1973) Standard values for the solar constant and its spectral components." Solar Energy #14, 109-127.

Thekaekara, M.P., "The Extraterrestrial Solar Spectrum" A.J Drummond and M.P. Thekaekara, Eds. Institute of Environmental Sciences, Mount Prospect Illinois, 1973. pp 71-133

Tobiska, W.A., and A.A. Nusinov, (2000) "STATUS of the draft ISO Solar Irradiance Standard." Phys. Chem. Earth (C) Vol 25 No. 4 pp 387-388

Fröhlich, C., and Lean, J., "Total Solar Irradiance Variations: the Construction of a Composite and its Comparison with Models," International Astronomical Union Symposium 185: New Eyes to See Inside the Sun and Stars, Kluwer Academic Publ., Dordrecht, The Netherlands, pp. 89-102.

Woods, T. N., et al, "Validation of the UARS Solar Ultraviolet Irradiances: Comparison with the ATLAS 1 and 2 Measurements," Journal of the Geophysical Research, Vol. 101, No. D6, April 30, 1996, pp. 9541-9569.

Neckel, H., and Labs, D., "The Solar Spectrum Between 3300 and 12500 ,

 Solar Physics, Vol. 90, 1984, pp. 205-258.

Kurucz, R. L., "ATLAS9 Stellar Atmosphere Programs and 2 km/s Grid," Harvard-Smithsonian Center for Astrophysics CD-ROM No. 13, 1993.

Smith, E. V. P., and Gottlieb, D. M., "Solar Flux and its Variations," Space Science Reviews, Vol. 16, Nos. 5/6, November/December 1974, pp. 771-802.
