



ULTRAVIOLET RADIATION: HOW IT AFFECTS LIFE ON EARTH

References

Herman, J. R. and Celarier, E. Al. 1997. "Earth Surface Reflectivity Climatology at 340 nm to 380 nm from TOMS Data," *Journal of Geophysical Research* 102, pp. 28003-28011

Krotkov, N.A., P.K. Bhartia, J. Herman, Z. Ahmad, V. Fioletov. 2001. "Satellite estimation of spectral surface UV irradiance 2: Effect of horizontally homogeneous clouds and snow," *Journal of Geophysical Research*, 106

Prézelin, Barbara B.; Moline, Mark A.; and Matlick, H. Allen. 1998. Icecolors '93: Spectral UV Radiation Effects on Antarctic Frazil Ice Algae. *Antarctic Sea Ice Biological Processes, Interactions, and Variability*. American Geophysical Union, Antarctic Research Series, Vol. 73

U.S. Department of Agriculture at Colorado State University. 2001. Managing Editors James R. Slusser and Wei Gao. *The USDA UVB Monitoring and Research Program*. (Colorado State University, Natural Resource Ecology Laboratory)

Vasilkov, Alexander, et al. 2001 "Global mapping of underwater UV fluxes and DNA-weighted exposures using TOMS and SeaWiFS data products" *Journal of Geophysical Research*, 106

World Meteorological Organization, Christine A. Ennis, Coordinating Editor. 1998. *Global Ozone Research and Monitoring Project—Report No. 44*. Scientific Assessment of Ozone Depletion.

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