

Ultraviolet Radiation In The Solar System

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Overview. Human exposure to solar ultraviolet radiation has important public health implications. Evidence of harm associated with overexposure to UV has been demonstrated in many studies. Skin cancer and malignant melanoma are among the most severe health effects, but a series of other health effects have been identified.

[WHO | Solar ultraviolet radiation: Global burden of ...](#)

UV radiation is an important part in the electromagnetic spectrum since the energy of the photons is great enough to produce important chemical reactions in the atmospheres of planets and satellites of our Solar System, thereby affecting the transmission of this radiation to the ground and its physical properties.

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The sun is by far the strongest source of ultraviolet radiation in our environment. Solar emissions include visible light, heat and ultraviolet (UV) radiation. Just as visible light consists of different colours that become apparent in a rainbow, the UV radiation spectrum is divided into three regions called UVA, UVB and UVC.

Radiation: Ultraviolet (UV) radiation

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Abstract. The biologically effective ultraviolet irradiance at the earth's surface varies with the elevation of the sun, the atmospheric ozone amount, and with the abundance of scatterers and absorbers of natural and anthropogenic origin. Taken alone, the reported decrease in column ozone over the Northern Hemisphere between 1969 and 1986 implies an increase in erythemal irradiance at the ground of four percent or less during summer.

[SOLAR ULTRAVIOLET RADIATION AT THE EARTH'S SURFACE ...](#)

The solar radiation reading gives a measure of the amount of solar radiation hitting the solar radiation sensor at any given time, express in Watts/sq. m (W/m2). UV Index The UV Index is a forecast of the probable intensity of skin damaging ultraviolet radiation reaching the surface during the solar noon hour (11:30-12:30 local standard time or 12:30-13:30 local daylight time).

[Solar radiation and UV Index information | Gary Kerr](#)

On the scattering of ultraviolet solar radiation in the atmosphere with the ozone absorption considered by S\u00f8 ren Hagerup Holck Larsen, 1959, I kommisjon hos Aschehoug edition, in Norwegian

[On the scattering of ultraviolet solar radiation in the ...](#)

Ultraviolet (UV) is a form of electromagnetic radiation with wavelength from 10 nm (with a corresponding frequency of approximately 30 PHz) to 400 nm (750 THz), shorter than that of visible light but longer than X-rays. UV radiation is present in sunlight, and constitutes about 10% of the total electromagnetic radiation output from the Sun.

[Ultraviolet - Wikipedia](#)

Ultraviolet radiation is produced by high-temperature surfaces, such as the Sun, in a continuous spectrum and by atomic excitation in a gaseous discharge tube as a discrete spectrum of wavelengths. Most of the ultraviolet radiation in sunlight is absorbed by oxygen in Earth ' s atmosphere, which forms the ozone layer of the lower stratosphere. Of the ultraviolet that does reach Earth ' s surface, almost 99 percent is UVA radiation.

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Ultraviolet radiation that is totally absorbed by the ozone layer is accepted as having the optimum germicidal wavelength\u2014ie, ultraviolet C radiation.

[Solar ultraviolet radiation sensitivity of SARS-CoV-2 ...](#)

Solar radiation, electromagnetic radiation, including X-rays, ultraviolet and infrared radiation, and radio emissions, as well as visible light, emanating from the Sun.Of the 3.8 \u00d7 10³³ ergs emitted by the Sun every second, about 1 part in 120 million is received by its attendant planets and their satellites. The small part of this energy intercepted by Earth (the solar constant, on average ...

[Solar radiation | Britannica](#)

On the basis of a large body of evidence from human and experimental studies, the monograph concludes that solar radiation is carcino-genic to humans, causing cutaneous malignant melanoma and nonmelanocytic skin cancer. Evidence for the carcinogenicity of ultraviolet A, B, and C radiation was judged sufficient in experimental animals.

[IARC Publications Website - Solar and Ultraviolet Radiation](#)

[Ultraviolet Radiation Lifestyle and Cancer Prevention.](#) Karen Basen-Engquist, ... Ernest Hawk, in [Abeloff's Clinical Oncology \(Sixth Edition\)](#),... [Water Disinfection for International Travelers.](#) Ultraviolet (UV) radiation is widely used to sterilize water for... [Environmental Factors.](#) Steven R. ...

[Ultraviolet Radiation - an overview | ScienceDirect Topics](#)

Solar radiation is the combination of ultraviolet radiation (UVR) and visible light that manages to reach the earth's surface (wavelengths >295 nm, classified as UVA and UVB). UVR that is <295 nm (the majority of UVC) does not reach the earth's surface because the atmosphere absorbs it.

[Solar ultraviolet radiation and skin cancer | Occupational ...](#)

UV radiation is very energetic compared to visible light or infrared radiation and is strong enough to destroy some chemical bonds when it collides with molecules. It is emitted by the sun as part of the solar radiation spectrum and has consequences for people and objects on the surface of the Earth.

[What is Ultraviolet Radiation? | Solar Gard Window Films ...](#)

There are two types of solar UVR: direct UVR, which arrives directly from the sun diffuse UVR, which is scattered by the atmosphere and reflective surfaces.

[UV radiation at work | Cancer Council](#)

Ultraviolet radiation (UVR) suppresses many aspects of cell-mediated immunity but it is uncertain whether solar UV exposure alters resistance to human infectious diseases. Varicella-zoster virus (VZV) causes varicella (chickenpox) and can reactivate from latency to cause zoster (shingles).