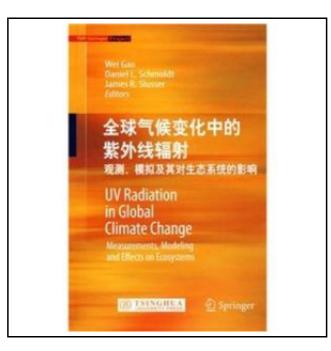
UV Radiation in Global climate change Measurements,Modeling and Effects on Ecosystems



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Reviews

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UV RADIATION IN GLOBAL CLIMATE CHANGE MEASUREMENTS, MODELING AND EFFECTS ON ECOSYSTEMS



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2009. Hardcover. Book Condition: New. First Edition. Language: English, Size:544 pages. Over the past three decades, the scientific community has realized the urgency of obtaining a better understanding of the interaction between the earth's atmosphere/biosphere and the sun's radiant energy. Most of the research has focused on theradiant energy balances in the solar and infrared regions of the spectrum, and theway these energy flows affect the climate. During this same time frame, in arelated arena, a smaller group of dedicated individuals has concentrated on therole of ultraviolet ¿UV¿ radiation as it affects the overall welfare of the planet.Although comprising only a small fraction of the radiation balance that may playa role in global climate change over the next centuries, UV radiation has thecapacity to cause direct and more immediate harm to virtually all living organismsand especially to human health. Cumulative high doses of UV radiation areconsidered a major causal factor in the development of skin cancer and cataracts. Ultraviolet radiation can weaken the human immune system, and can also affectcrop production and ocean bio-productivity. Concerns about the increased levels of UV-B radiation reaching the earth'ssurface have led to the development of ground- and space-based measurementprograms to provide long-term records of its levels. Accurate longtermmeasurements are difficult to obtain, especially when limited to the bandwidthregions that contain the most harmful solar photons. A core of concernedscientists from across the globe realizes that much work is needed in quantifying the harmful radiation levels and defining their adverse effects. In assessing theeffects of UV-B radiation, it is important to realize the complexity of theinteractions of living organisms that cause adverse responses with radiant energydirectly, as well as in combination with other climate stressors, such as drought, increased temperatures, and CO2.

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