

THE INFLUENCE OF SOLAR X RAYS: MODELING ATMOSPHERE

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The atmosphere of the sunlit Earth is mostly influenced from outside by solar radiation, mainly in soft-range X-ray section of the electromagnetic spectrum. The ionosphere's photo-ionization rate is influenced by composite particles and the solar radiation spectrum at the altitude under consideration. Data on some solar spectral lines, especially as Lyman-alpha, and radiation could be very useful in studying solar flares. In this contribution we statistically analyzed the influence of solar flares i.e. radiation on Very Low Frequency VLF signals and atmosphere composition.