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this paper the ionosphere is both shaped by waves from the atmosphere below and uniquely responsive to the changing conditions in space conveying such space weather into observable earth effective phenomena creating the aurora disrupting communications signals and sometimes causing satellite problems the ionosphere is important because it reflects and modifies radio waves used for communication and navigation other phenomena such as energetic charged particles and cosmic rays also have an ionizing effect and can contribute to the ionosphere the ionosphere *ai'ɒnə,sfɪər* 1 2 is the ionized part of the upper atmosphere of earth from about 48 km 30 mi to 965 km 600 mi above sea level 3 a region that includes the thermosphere and parts of the mesosphere and exosphere the ionosphere is ionized by solar radiation whistlers and related ionospheric phenomena in the vlf range helliwell 2006 were first identified in the late nineteenth century and early twentieth century and subsequent research alerted the community to the importance of these signals in the study of the outer ionosphere and magnetosphere satellite communications nuclear detection and g whistlers and related ionospheric phenomena robert a helliwell stanford university press geophysical journal international oxford academic volume 11 issue 5 whistlers and related ionospheric phenomena dover books on electrical engineering the investigation of whistlers and related phenomena is a key element in studies of very low frequency propagation satellite communication the outer ionosphere and solar terrestrial relationships whistlers and related ionospheric phenomena ebook by robert a helliwell read a sample format ebook isbn 9780486445724 author robert a helliwell publisher dover publications release 10 june 2014

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affects the propagation of radio waves which extends from about 30 miles 50 kilometers to the exosphere and which is contiguous with the upper portion of the mesosphere and the thermosphere

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