

Study on Kilometric Continuum and its generation and propagation mechanism

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Kilometric continuum found by Geotail has a frequency range from 100 to 800 kHz and is the high frequency extension of the escaping continuum[1]. It is observed only near the magnetic equator statistically. IMAGE Radio Plasma Imager (RPI) and Extreme ultraviolet (EUV) have found that kilometric continuum is generated at the plasmopause, in or near the magnetic equator, within a bite-out region[2]. Jones proposed the latitudinal beaming of continuum based on the generation mechanism [3]. GEOTAIL observations of kilometric continuum show objections against this theory. We will compare and examine the observations and theories in a viewpoint of its propagation.

References:

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