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Whistler modulation of VLF emission intensity

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In the wave particle interactions related to whistlers propagating in the magnetosphere particles can lose energy and may even precipitate into the atmosphere. Natural VLF emissions like chorus get energy in similar interactions. On 29 November 2006 in the morning hours there were simultaneously both chorus around 3-4 kHz and a lot of echoing strong whistlers, which had evidently propagated far away from the lower L-values to the Kannuslehto measuring site at about L-value of 5.45 near Sodankylä, Finland. When echoing whistler sequence started the chorus intensity went down by several decibels during the first few whistlers and then started to recover in timescale of the order of 1-2 minutes. The phenomenon repeated several times. Further evidence is given favoring the explanation that the origin of the phenomenon is the modulation of the source of chorus and not whistler related absorption.